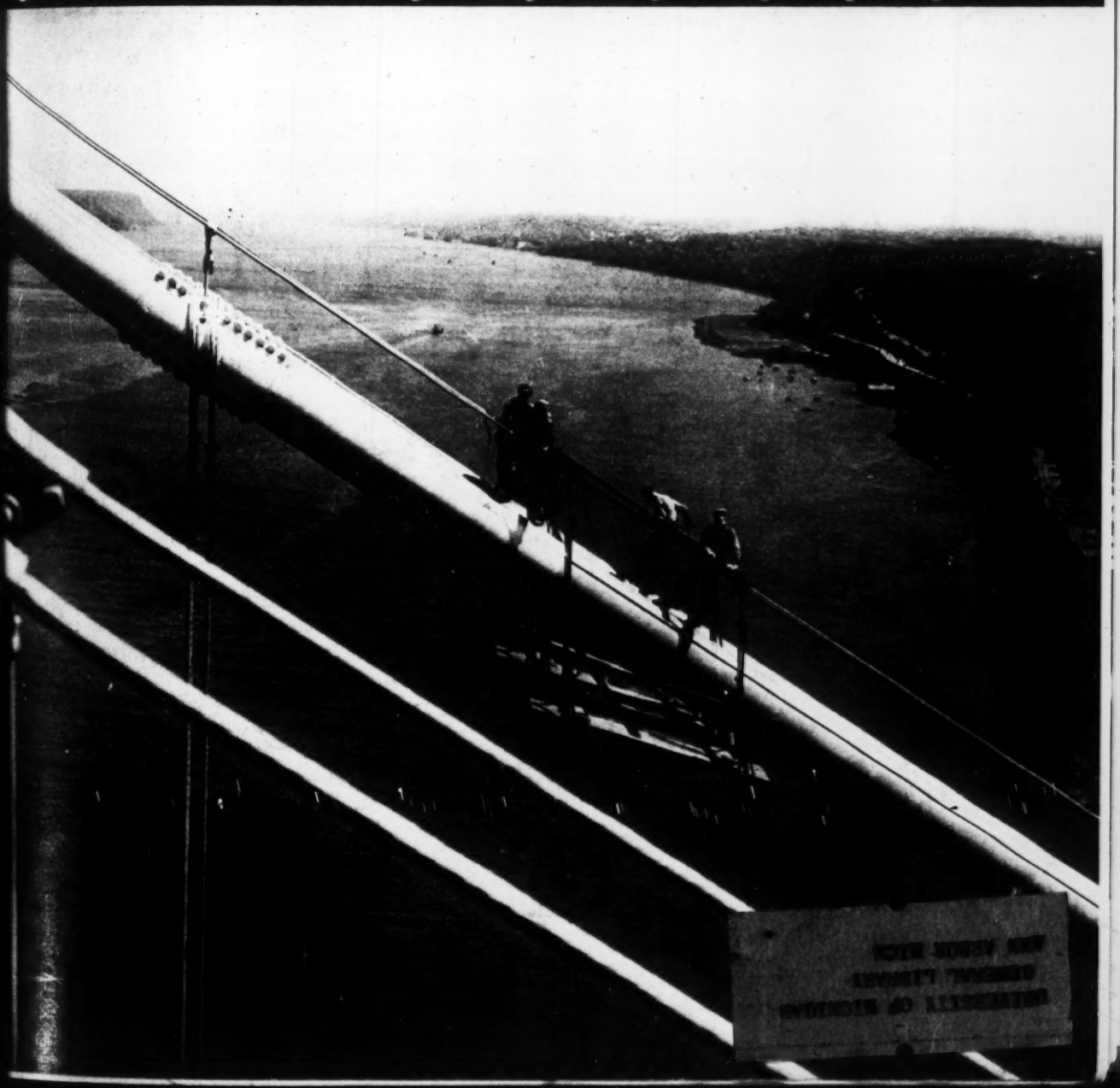
ENGINEERING NEWS-RECORD

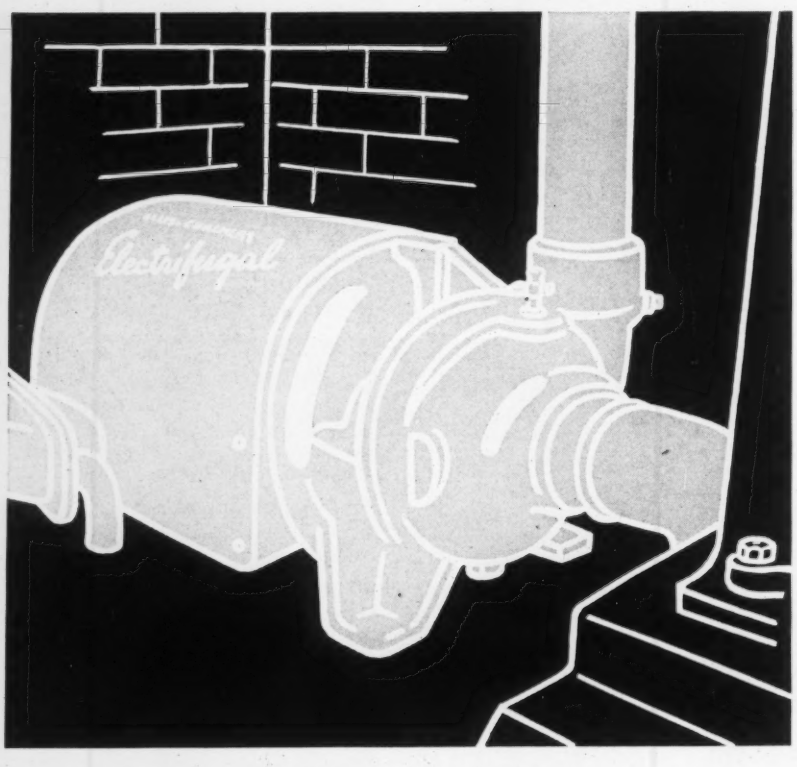
High above Hudson River, workmen give George Washington Bridge first painting since 1940

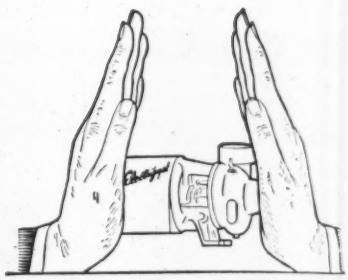


Economical "Package" Pump Saves SPACE and MONEY

By combining pump and motor into one compact unit, Allis-Chalmers engineers created the "Electrifugal" pump — that requires *one-third less space.* But . . . more than that . . . it costs you *less to buy — less to install — less to operate* — and has a wide range of applications.

The "Electrifugal" pump is a popular member of the complete Allis-Chalmers line of centrifugal pumps and motors: single or double suction — multi-stage — capacities to 170,000 gpm.





MORE QUICKLY INSTALLED

Comes completely assembled. Just bolt down four supports, make pipe and power connections — and start pumping! Operates in any position.

MORE QUICKLY SERVICED

Easy to get at rotor, impeller, packing and all moving parts. Take it apart and put it together fast. Down time reduced to a minimum.

YOU SAVE ON MAINTENANCE

Ample bronze wearing rings — seal cage and valve—shaft sleeve and deflector — five packing rings — precision workmanship and other quality features add up to longer life, less maintenance cost.

UNDIVIDED RESPONSIBILITY

Allis-Chalmers builds both pumps and motors — backs them up with unsurpassed experience and reputation in both fields. Call your A-C office or dealer for help on any pumping problem . . . or write for bulletin No. B6018. ALLIS-CHALMERS, MILWAUKEE 1, WISCONSIN.

TIGHT SQUEEZE! — But this "Electrifugal" pump was built for close quarters. Allis-Chalmers engineers have developed and perfected the close-coupled pump through 20 years of experience. Built in stock sizes from ¾ to 25 h.p.

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One of the Big 3 in Electric Power Equipment-Biggest of All in Range of Industrial Products

Electrifugal **PUMPS**

News of the Week

ENGINEERING NEWS-RECORD • AUGUST 1, 1946 • VOLUME 137 • NUMBER 5

Building material supply situation continues dark

Re-check of 12 key U. S. cities shows no general improvement in month — Brick and tile almost disappear from market — Labor supply continues to hold up

Except for the single factor that the black market in the building materials supply field has apparently disappeared, the month-long absence of OPA controls had almost no effect on bettering the supply situation, a re-check of twelve key cities by *Engineering News-Record* indicated last week.

An original spot-survey, reported in the June 27 issue (vol. p. 963) showed conditions to be bad in most essential materials. The re-check, made in the same localities, shows practically no change.

Some materials—such as lumber—showed a slight turn toward the better, but this improvement is overbalanced, for example, by evidence of a sudden tightening up that has made brick and tile products almost unavailable.

The only bright spot in the survey, as shown in the accompanying table, is in labor supply. But this too must be evaluated in the light of actual conditions. The *ENR* correspondents and news bureaus, reporting on labor, emphasized that it is nearly equal to demand at present simply because the lack of general materials has cut down the amount of work available.

The twelve cities checked in both the current and the June 27 survey, are New York City, N. Y.; Chicago, Ill.; Atlanta, Ga.; Seattle, Wash.; Minneapolis, Minn.; Austin, Texas; St. Louis, Mo.; Jackson, Miss.; Boston, Mass.; Cleveland, Ohio; Syracuse, N. Y., and San Francisco, Calif.

In comparison with the previous survey, lumber supplies showed a slight turn for the better, in that dealers reported "some possibilities" of delivery within six months, whereas earlier they had been unable to make any estimate for delivery under a year in most lumber categories. The *ENR* correspondents reported, however, that the slight easing in lumber did not indicate any improvement in quality. The wood is still green, most of it fresh-cut from the forests within days of its delivery for use. Structural steel shapes and reinforcing bars also showed a slight improvement. Availability brick and tile products decreased during the month, most reports indicating that these products are now almost impossible to obtain in many localities.

No chance for stockpiling

Best aspects of the supply picture are in concrete block and cement. The reports indicate that while there is no appreciable stockpiling of these materials, enough is available to supply immediate local demand.

Best opinion as to the reasons for the failure of supplies (other than labor troubles and pricing) is that the demand for building materials is so tremendous that there has not been—and probably will not be for some months to come—any opportunity for stockpiling the materials.

As soon as a stick of lumber is received by the dealer, the reports indicate, it is purchased and used by contractors. The same applies to all other materials. Dealers' shelves never get a chance to be filled, and the dealers are forced to handle most of their business on the basis of orders for future delivery.

Building material prices show spotty advances

Continuing short supplies of building materials during the past month has been accompanied by varying rises in the prices of the items, according to *Engineering News-Record's* Business News Department.

Checks in nine of the twelve cities covered in a general survey of the supply situation (see col. 1 on this page) indicate the following general rises in price have occurred:

Common brick, up by $1.25 per M at Cleveland, and $1.50 per M at New York and St. Louis; face brick, up by $1.25 per M at Cleveland, and $1.50 per M at St. Louis; partition tile, up $4.50 at New York and $8.50 at Seattle; bearing tile, up $7.60 at New York and $8.50 at Seattle; concrete block, up from one and one-half to two and one-half cents per block at Chicago, Minneapolis, St. Louis and San Francisco; lumber, up fifty cents per thousand at New York to $39 per thousand feet at St. Louis; structural steel, up two cents at Minneapolis and St. Louis; cement, up two cents at Chicago, four cents at Cleveland and Minneapolis, and eight cents at New York.

Some of the price rises in the eastern sector of the United States were credited to the recently granted increase in railroad freight rates.

BUILDING MATERIAL SUPPLY AND DEMAND 12 CITIES

(percentages shown are percentages of supply below demand, the numbers are cities reporting)

Material	0–25%		25–50%		50–75%	
	August 1	June 27	August 1	June 27	August 1	June 27
Brick, common	4	5	2	5	6	2
Brick, face	3	2	4	5	5	5
Tile, hollow partition	1	5	4	4	7	3
Tile, bearing	3	5	3	4	6	3
Glass, plate	3	4	4	2	5	6
Concrete block	3	9	4	2	5	1
Lumber, 1½" and under	1	2	4	3	7	7
Lumber, 2" and over	1	2	6	2	5	8
Lumber, heavy timber	0	1	6	4	6	7
Plywood, 5-ply waterp'f	1	1	3	2	8	9
Plywood, 3-ply	1	1	3	0	8	11
Steel, structural	4	1	5	5	3	6
Steel, reinf'cng bar	3	1	4	3	5	8
Cement (1)	6	8	3	4	1	0
Labor, common	11	7	1	5	0	0
Labor, skilled	7	4	3	6	2	2

(1) Two cities report sufficient cement available.

NEWS IN BRIEF

In telegraphic form, here are latest news developments on the engineering and construction front during the week.

Construction—A $2,500,000 arcade for 55 shops is planned at *Miami, Fla.* . . . A group of *Peoria, Ill.*, citizens is planning a $2,500,000 home for elderly chronically ill patients. . . . Southern Plow Co., department of *Columbus, Ga.*, Iron Works Co. plans a $300,000 modernization program. . . . A new Sears-Roebuck store at *Knoxville, Tenn.*, will cost approximately $2,000,000—a revision on original estimates of $1,000,000. . . . *Dekalb County, Ga.*, plans to improve county school facilities at a cost of more than $850,000. . . . A $1,000,000 jail is being planned by *Mobile, Ala.* . . . At *Oklahoma City, Okla.*, work has been started under a $800,000 school repair and modernization program. . . .Public projects in *New Mexico*, under way and planned, total $354,294,000, the state planning board reports. . . . A survey made to determine the effect of non-housing construction on materials supply shows that the dollar value of critical materials going into commercial and industrial construction amounts to only three percent of total costs, the Civilian Production Administration says.

Highways—The Public Roads Administration is getting bids on access roads to the Detroit Dam being built by U. S. Engineers on the North Santiam River in *Oregon*. . . . *Columbia, S. C.*, plans to pave 145 streets as part of a $1,500,000 city improvement plan. . . . The *Arkansas* highway department has a 1947 construction program of $2,173,000 for primary and secondary roads. Its current work is being delayed by materials shortages. . . . *Sangamon County, Ill.*, will resurface and improve 338 miles of roads at a cost of $100,000. . . . *Minnesota* counties in 1945 spent $12,304,754 for construction and maintenance on state aid, county aid and county roads. . . . *North Carolina* expects to spend $23,000,000 in each of the next three years. . . . A $1,500,000 *Birmingham, Ala.*, to *Birmingport* highway project has been approved by PRA. . . . Road work totalling $15,000,000 for 500 miles is being carried on by the *Province of Quebec*. . . . *Nova Scotia* will spend $4,000,000 this year on preparatory work and paving of trunk and secondary roads. A shortage of contractors' road equipment has forced the Department of Highways to undertake its own work on roads, for which $1,000,000 is available. . . . $46,000,000 highway construction program for *California* for the second postwar year has been approved by the U. S. Commissioner of Public Roads. . . . Lack of 8-penny nails for concrete forms is delaying structures for the new 4-lane highway between *Toronto* and *Barrie, Ont.*, in Canada.

Bond Issues—At *McPherson, Kan.*, an issue of $430.000 for city improvements has been approved by the city commission. . . . *Anderson, S. C.*, will soon sell $1,000,000 worth of bonds to finance long-range improvement of farm-to-market roads. . . . *Hapeville, Ga.*, voters have approved a $302.000 municipal bond issue for street repairs, sewerage projects, recreational plans and municipal buildings. . . . *Miami, Fla.* plans to proceed with improvement of its sidewalks and sewerage system following validation by the Supreme Court of bond issues totaling $23,846,000. . . . *Grand Junction, Colo.*, property owners have voted a $1,000,000 water bond issue for construction of a 20-mile pipeline to Kannah Creek and an earthfill storage dam on the Grand Mesa. . . . *Fairfield, Ill.*, adopted an ordinance for the issuance of $452,000 worth of city waterworks and sewerage revenue bonds, of which $400,000 will finance proposed water and sewer improvements.

Housing—Plans have been announced by the Oregon Settlement Association of *Eugene, Ore.*, for the construction of 1,345 homes in *Eugene, Springfield* and *Corvallis* at costs totaling nearly $5,000,000. . . . Roy D. Warren Co. of *Atlanta, Ga.*, has announced plans for the development of four subdivisions there, involving construction of 185 houses at an estimated cost of $1,500,000. . . . Long Construction Co., of Charleston, S. C. is grading a site at *Atlanta, Ga.*, for construction of 35 buildings to contain 200 apartment units for lease to veterans. Cost of the project is estimated at $2,000,000. . . . A recent survey at *Tampa, Fla.*, showed an estimated $5,000,000 worth of homes, ranging in size from one-bedroom bungalows to mansions costing $25,000 to $50,000, were under construction but work on many of them is proceeding slowly or has stopped completely because of scarcity of building materials. . . . A total of 576,721 houses and apartments were authorized for construction with priorities assistance under the Veterans Emergency Housing Program from January 15, when the HH preference ratings were inaugurated, through June 28, Wilson W. Wyatt, Housing Expediter and Administrator of the National Housing Agency has announced.

Sewers and Water Supply—*Portland, Ore.*, has a surplus of $775.000 and $12,000,000 authorized by voters in May, 1944, to meet construction costs of sewerage improvements. . . . *East Moline, Ill.*, city council has provided for a major water and sewer expansion to cost $1,600,000.

NHA appoints R. A. Gridley to head building branch

Ross A. Gridley, a construction engineer for the past 30 years, has been appointed director of the Construction Branch of the National Housing Agency.

The branch aids contractors in the field to construct houses under the Federal Emergency Housing Program, by making available a staff of some 35 construction engineers working out of regional expediters' offices.

A native of Seattle, Mr. Gridley studied civil engineering at Washington State College, and worked on various construction projects until 1933, when he joined the Public Works Administration in an engineering capacity.

Missouri refuses consent to Waco Dam project

Based on recommendations by the Missouri State Department of Resources and Development and on other information, Governor Donnelly of that state has notified the War Department that Missouri would not give its consent to the construction of Waco flood control dam and reservoir on Spring River in Jasper County.

Cost of the Waco project was estimated by Army Engineers at $6,173,860. Opponents in the state legislature asserted that the real purpose of the project was to equalize the flow of water at Pensacola power dam on the Grand River in Oklahoma.

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Advance river-basin control programs

Preliminary work on the vast Missouri Basin development program was advanced to more than 83 percent of completion during the fiscal year of 1946, according to a monthly report issued last week by the Department of the Interior.

The report served as a supplement to a progress report issued June 19 (*ENR* July 4, vol. p. 6) by the Army's Corps of Engineers, which said that more than 50 percent of the Army's share of the development program was already obligated or under contract.

Highlights of the Interior Department report were the news that work will begin soon on Angostura Dam in South Dakota—for which a $4,237,476 contract was awarded to the Utah Construction Co. of Ogden Utah; and actual groundbreaking on Cherry Creek Dam, near Denver, Colo.

Angostura Dam will be the second Reclamation Bureau unit to be constructed in the basin program, to provide irrigation water for land along the Cheyenne River. First unit of the reclamation program is Kortes Dam in Wyoming, for which ground was broken May 15. Angostura will be a concrete gravity structure, 1,900 ft. long and 150 ft. high, providing a storage capacity of 220,000 ac. ft.

With Brig. Gen. Lewis A. Pick, and state and local official present, ground was broken July 16 for Cherry Creek Dam (*ENR* July 4, vol. p. 6). Built 11 miles above the junction of Cherry Creek and the South Platte River (a Missouri tributary) the dam will be of earth fill, with a maximum height of 140 ft. and an overall length of 14,300 ft. Eventual cost has been estimated at $18,000,000.

Other river basins

While Army engineers and the reclamation bureau pushed ahead with the Missouri basin development, other river-basin programs began to take shape.

In Ohio, despite opposition from local landowners (*ENR* June 13, vol. p. 897) who objected that construction would remove much valuable property from tax rolls, Army Engineers announced breaking of ground for the $10,000,000 Dillon Dam, a flood control project 12 miles east of Zanesville on the Licking River. Its 10-mile lake would aid in major flood control on the Licking and Ohio Rivers, engineers contend. The dam itself would be the largest earth dam in Ohio—108 ft. high and 1,208 ft. long. Construction would entail moving several miles of railroad trackage.

In Washington, the Bureau of Reclamation announced award of a $2,871,000 contract for advancing construction work on the West Canal of the Columbia Basin Project. The six and one-half mile section of the canal (see *ENR* Nov. 29, 1944, vol. p. 682 for map) will run from a point about two miles north of the town of Adrian to a point a mile north of the town of Soap Lake. The major portion of the canal will be concrete lined.

Oppose govt. authorities for regional projects

The California Water Resources Board has declared itself against establishment of regional federal authorities in river basins which would include California and favors the return of the Central Valley Project to the state.

The board voted unanimously to approve a resolution condemning federal basin authorities as "not in keeping with American traditions and ideals."

Gov. Earl Warren was urged in the resolution to take a firm stand for local and state control of maintenance and operation of army flood control projects.

The board was created by the 1945 legislative session to coordinate development of water resources in the state.

Work to start soon on McNary Dam, Ore.

Army Engineers have at their disposal $2,600,000 with which to initiate construction of the McNary Dam on the Columbia River near Umatilla, Ore., according to Col. O. E. Walsh, Portland district engineer.

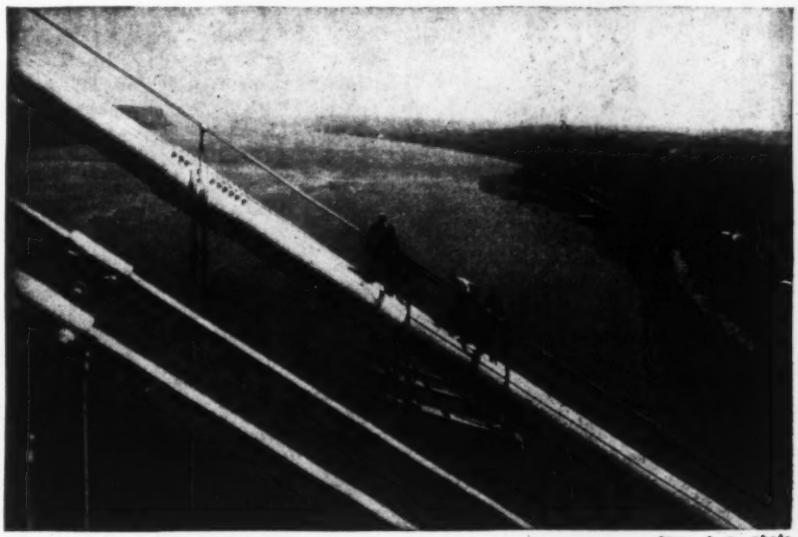
Early next fall, Colonel Walsh reported, bids will be called for on rock excavation for the dam lock and a portion of the approach channel.

Reporting on the Willamette valley flood control project, Colonel Walsh said actual construction will get under way this year on the Dorena Dam on the coast fork of the river, Meridian Dam on the middle fork and the Detroit Dam on the Santiam river.

Canada pushes hydro work

The British Columbia Power Commission in a report last week said that rapid progress is being made on construction of its Campbell River development, designed to serve the electric power needs of Vancouver Island.

Estimated to cost $5,250,000, the dam is to be an earth-fill structure, immediately above Moose Falls, on the Campbell River above Vancouver. Expected to develop a total of 225,000 hp., the structure will create a 680-acre lake to feed a power house planned to be erected on the river bank.



From Assn. photo

***Face Lifting**—For the first time in six years, workmen perch 500 ft. above the Hudson River to give New York's George Washington Bridge a coat of paint. First job is to cover rust spots with red lead, then some 30,000 gallons of aluminum paint will cover the entire metal structure. A $400,000 job, it will take an estimated four years to complete. Start of work proved a unique test for several veteran aviators, who thought great heights wouldn't affect them. Hauled up to top of 600-ft. towers, several of these men declined the job.*

DEVELOPMENTS BEYOND U. S. BORDERS

Digested from reports by Engineering News-Record correspondents and the McGraw-Hill World News Bureau

Britain names second satellite town—Russia, South Africa plan major railroad work—Ethiopia gets $3 million for purchase of equipment

ENGLAND—Carrying forward an ambitious program to create a series of model satellite towns around the great metropolitan center of London, the British Ministry of Town and Country Planning last week announced the selection of the second "new town", south of London.

The first town selected was the old manorial village of Stevenage, north of London (*ENR* June 6, vol. p. 882). Under the plans, as drawn up by Sir Patrick Abercrombie, the "new towns" will have a population of from 50,000 to 60,000 persons, divided into neighborhood groups of perhaps 10,000 persons—each neighborhood with its own schools, stores and recreational facilities, and each area separated from others by large open spaces.

Site of the second "town" will be the villages of Crawley and Three Bridges, in Sussex, 31 miles south of London, where some 4,000 acres will be included in the project. The two towns are now only a mile apart.

Lewis Silkin, minister of town and country planning, assured local officials that the new town will be individual in character, and local industries preserved, so that the new community does not become a mere dormitory for London workers.

Railroads . . . . .

Russia—Railway bridges totalling nearly 200 miles in length and requiring some 550,000 tons of steel are scheduled to be restored or built anew during the next five years, the Russian Ministry of Railways has announced.

The 5-year construction program visualizes, in detail, the construction of 1,800 "large and medium-sized" bridges, and reconstruction of more than 10,000 smaller structures damaged or destroyed during the war.

The ministry said that reinforced concrete would be used extensively for this work, and added that the use of prefabricated sections is being introduced on a large scale. Major reinforced concrete structures are planned to span the Don River at Rostov, and the Dneiper River at Zaporozhye.

South Africa—The existing railroad line connecting Johannesburg and Cape Town will be re-routed through the mountainous Hex River Valley region through an 8-mile tunnel—said to be the longest planned for Africa. To begin shortly, work on the new construction will take more than four years, and the cost is estimated at more than $4,000,000.

England—A determined effort to revive a scheme for a submarine railway tunnel to link North and South Shields, near Tynemouth was started recently by civic groups. The tunnel would eliminate present ferry service across the Tyne River between the two towns, making possible 3-minute service, a taxpayers' group said. Cost of the project was estimated at over $2,000,000.

Reconstruction . . . . .

Ethiopia—The government at Addis-Abbaba has been advised that it has been granted a credit of $3,000,000 by the Export-Import Bank of Washington, for use in restoring essential transportation and other public facilities.

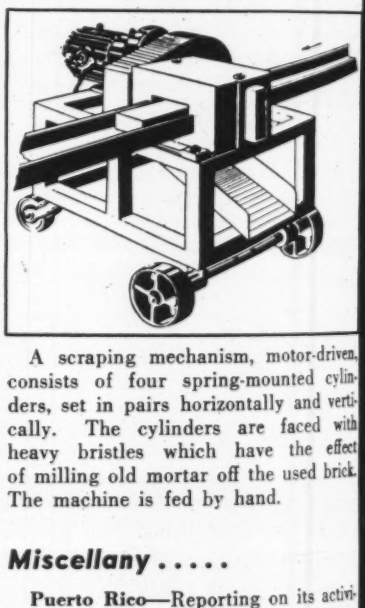
At war and the scene of actual hostilities for a longer period than any other country except China, Ethiopia suffered heavy material damage to its essential services. Specific materials for which the credit will be used include: trucks, passenger cars and buses; tires; and machinery, tools and equipment, including road graders, tractors, and other construction machinery.

Java—Batavia, prewar capital of the Netherlands Indies, which was almost totally wiped out by bomb attacks during the war, probably will have to be rebuilt on a new site, according to a recent report of the Netherlands Department of Public Works.

Pending a decision on a new site for the capital, government agencies are assembling lumber, steel and other materials for construction of permanent homes, stores and government buildings.

Machinery . . . . .

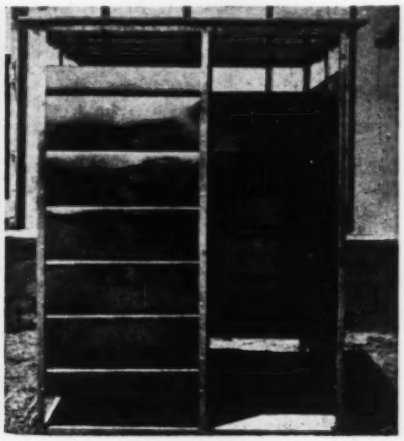
Czechoslovakia—The Skoda Works at Pilsen—long famous as munitions-makers—are now turning out the machine, pictured herewith, for cleaning used brick in war-destroyed cities.

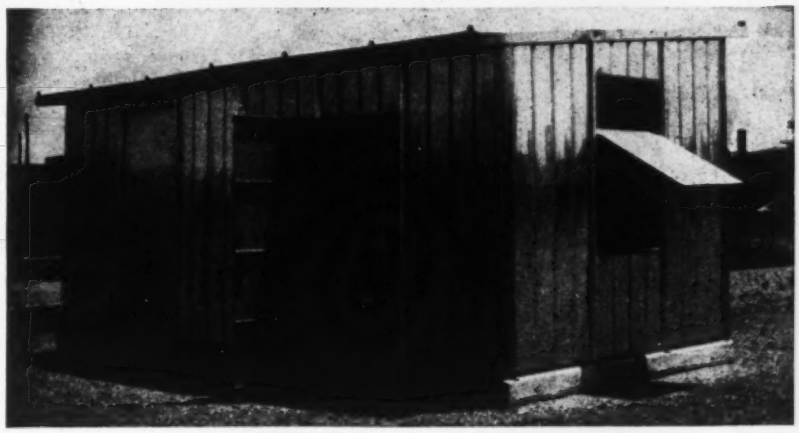


A scraping mechanism, motor-driven, consists of four spring-mounted cylinders, set in pairs horizontally and vertically. The cylinders are faced with heavy bristles which have the effect of milling old mortar off the used brick. The machine is fed by hand.

Miscellany . . . . .

Puerto Rico—Reporting on its activities during the last fiscal year, the Planning Board of Puerto Rico listed accomplishments including: Completion of a master plan for improvements to more than 2,000 miles of roads and construc-





For Export Trade — *All-Aluminum houses and all-Aluminum latrines are being manufactured at Birmingham, Ala., by the Southern States Iron Roofing Co., for the Puerto Rican government as a part of a major sanitation program. The house, 19 ft. x 9½ ft. and divided into two rooms, weighs 970 lb. when packed for shipment. The latrines are of two types—one, weighing 80 lbs., being constructed of fabricated aluminum alloy roofing sheet; and the other, weighing 68 lb., is built of V-corrugated sheet. Both the latrines may be assembled quickly with only a wrench and screw-driver. Base of the latrines is an aluminum form, on which the aluminum riser and seat is fixed, and which is embedded in concrete for stability. The Puerto Rican government recently announced a six-year sanitary improvement program, including the introduction of sanitary waste disposal systems. It placed an original order for 9,000 of the latrines, and is expected to increase the order.*

tion of another 2,000 miles of new roads; establishment of zoning regulations applicable to all urban areas; preparation of a master plan for construction of municipal hospitals; and consolidation of the San Juan Harbor Board and other harbor and dock agencies which will be under the direction of the Transportation Authority.

Russia—The Ukrainian office of the Soviet Hydroelectric Project Trust is now conducting surveys on the site of a new large hydroelectric power plant, to be built 10 miles north of Kremenchung, on the Dneiper River. The station is expected to supply more than a billion kilowatt hours annually for the adjacent iron fields of Krivoi Rog.

Mexico — Mexican industrial organizations are obliged to provide their workmen with houses, but the national housing law does not require that the companies construct such housing, the second district court in Mexico City ruled recently. The court handed down its ruling in granting more than 400 companies restraining orders against the demand of President Manuel Avila Camacho and the Public Health and Welfare Ministry that the companies build houses for their help.

The ruling is believed to be temporary, since government sources indicated that it would be carried to the federal supreme court.

Suit to test legality of the recent government ruling was brought by the industries, which foresaw great expenses if forced to build housing.

Highways . . . . .

Ukraine—An extensive plan for the construction of new roads and reconstruction of old ones has been launched by the Ukranian Central Road Administration. More than 500 million rubles (about $41,000,000 at the so-called "diplomatic" exchange rate) has been appropriated for this purpose.

"The war played havoc with Ukranian roads," Mikhail Dovgal, chief of the administration, reported. "All bridges over rivers of any appreciable size were destroyed, and most of the roads built by the collective farms became impassable."

New highways are being planned to connect all regional centers of the Ukraine. By 1950, it is expected that roads will be open from Kiev to Odessa, Dniepropetrovsk, Kharkov, and elsewhere.

Aerial surveys ordered for western dam projects

The Bureau of Reclamation and the U. S. Army Engineers have announced the award of contracts for aerial surveys to determine feasible locations of dam sites in the West.

The bureau awarded a $139.560 contract for a topographic survey of portions of the San Juan River in Utah to Fairchild Aerial Surveys, Inc., Los Angeles, Calif. The engineers' $5,180 contract went to Wallace Aerial Surveys, Spokane, Wash., for 1,070 flight line miles of aerial mapping photography on the Snake and Salmon rivers in Idaho.

The Fairchild survey, which will cover the canyon section below Goodrich and the Bluff reservoir site, is part of a study being made to develop San Juan basin water resources and provide silt control for the protection of Lake Mead and the entire lower Colorado basin development program.

Wallace photographs will cover the Snake river from Lewiston, Ida., to Huntington, Ore., and the Salmon river from its mouth to its junction with the north fork, Col. O. E. Walsh, Portland district Army Engineer, said.

Government sets up new cement specifications

All new federal purchases of Portland cement will be made under a recently issued Federal Specification, SS-C-192, developed by the Federal Specification Board's technical committee on cement, lime and plaster.

Combining the requirements of Federal Specifications SS-C-191b, SS-C-201a, SS-C-206a and SS-C-211a—which it supersedes—the new specification incorporates three new types of cement. These are the high sulfate resistance type which retards flaking and cracking of concrete in soils containing a high concentrate of sulphate; a second type having a low heat of hydration which prevents excessive generation of heat in thick sections with resultant weakening of structure; and the third type containing the air entraining agents.

The specification provides specifically for air entraining. Federal officials say that when applied to highway pavements and other exposed structures, the new cement is expected to improve considerably the resistance of concrete to repeated cycles of severe freezing and thawing. They expect that its use will double and possibly treble the life of exposed concrete, reducing the costs of maintenance.

Federal Specification SS-C-192 is available by writing to the Government Printing Office, Washington 25. D. C., at five cents per copy.

New welding code issued for building work

A 1946 edition of the Standard Code for Arc and Gas Welding in building construction has been issued to replace the 1941 tentative edition. The code has been prepared so as to be suitable in language, form and coverage for adoption as administrative law.

The new edition embodies revisions based on recent applications of welding to structural fabrication and on recent research.

The section on design now provides for increased allowable weld unit stresses equal to those allowed for the steel being welded. Other sections on filler metal, workmanship, inspection and qualification of welding operators and procedures also have been revised. Attention is directed to the interrelationship between stress distribution in the welded connections and in the structure as a whole, and classifications are set up for the various design assumptions.

Copies may be obtained from the American Welding Society, 33 West 39th St., New York 18, N. Y.

Over $10,000,000 needed for Minneapolis schools

A 5-year expansion and improvement program for public schools in Minneapolis, Minn., has been submitted to the board of education by Willard E. Goslin, superintendent of schools. Involving the expenditure of approximately $10,573,000, the program is divided into these four parts:

(1) Construction of new buildings to provide school facilities in sections of the city now sparsely populated but growing; (2) Additions to present buildings to provide additional classroom space or other needed facilities; (3) New construction to replace old or obsolete buildings, including portables; (4) Alterations to present buildings to make them adequate to house a modern educational program.

Stressing the need for additional facilities, Goslin pointed to the 50 percent increase in resident births in Minneapolis between 1935 and 1943, with a resultant upward swing in enrollment.

OTS reports on "high early strength cement"

A "high early strength" cement used for construction work in Germany is described in a report now on sale by the Office of Technical Services, Department of Commerce. Tests made indicate that it is highly resistant to sulphates and is mixable with water containing as much as 250 milligrams of carbon dioxide per liter.

The report was made by Lt. Comdr. T. M. Prentice for the U. S. Naval Technical Mission in Europe.

The ingredients of the cement called "Schmelz" are melted before being finely ground. It is composed of a mixture of calcium, aluminum, ferrous, and silicon oxides.

"Schmelz" cement costs three times as much as Portland cement, according to the report, and is used economically only when construction jobs require its special chemical properties or high initial strength. The cement can be poured with safety at temperatures down to minus 7 degrees Centigrade. It cannot be mixed with Portland cement because the heat given off in setting is so great that it breaks down the Portland cement.

Orders for the report (PB-22813; photostat, $1; microfilm, 50 cents; 7 pages) should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

N. Y. City housing project blocked by U. S.

Building of one of New York City's most important public housing projects, part of a vast slum clearance program on the lower east side of Manhattan, has been endangered by the refusal of the Federal Public Housing Authority to approve a contract for the $11,770,000 Jacob Riis Federal Houses. (*ENR* June 3, 1943, vol. p. 783).

Meanwhile, Governor Dewey announced allocation of an additional $3,272,000 of state funds for veterans housing at educational institutions.

Construction of the housing development, which is designed to accommodate 1,190 families in low-rent apartments, was to have begun immediately after the expected sanctioning of a $1,443,400 contract awarded to the Corbetta Construction Co. for the foundations.

However, John A. Kervick, regional director of the FPHA, has notified the City Housing Authority that he could not agree to the award because the cost of the project not only would exceed the revised estimates of $8,362,000 made by the FPHA in 1945, but what is even more serious would exceed Federal statutory limits by about $1,411 per unit.

In turning down the construction award, Mr. Kervick said that if the Wagner-Ellender-Taft bill were passed, new funds to make up the difference, estimated at $1,679,090 for the entire project, might be available. Otherwise, he suggested, the federal agency was willing to work out an agreement whereby the city itself would make up the difference.

Calendar of Meetings

NATIONAL

Building Officials Conference of America, annual convention, Peabody Hotel, Memphis, Tenn., Sept. 2-5.

REGIONAL

Interstate Commission on the Potomac River Basin, 5th annual meeting, Camp Ritchie, Md., Aug. 8-9.

American Shore and Beach Preservation Association, summer meeting. The Breakers, Cedar Point, Ohio, Aug. 13-15.

Pennsylvania Sewage Works Association, annual meeting, Pennsylvania State College, State College, Pa., Aug. 28-30.

Georgia Water and Sewage Association, annual meeting, in conjunction with 15th annual Georgia Water and Sewage School, Georgia Institute of Technology, Atlanta, Ga., Sept. 16-18.

New England Water Works Association, 65th annual conference. Poland Spring House, Poland Spring, Maine, Sept. 16-20.

New York to consider anti-pollution laws

Tennessee, Indiana, report further action in elimination of waste in streams

Following the lead of states which have had active anti-stream pollution legislation in effect for several years, New York State legislators will be offered a rounded program for pollution abatement at the next legislative session.

A statewide study of current pollution conditions in the state's extensive waterways was authorized by the legislature early last spring, and is now being carried on under the auspices of the Joint Legislative Committee on Interstate Cooperation—to which Morris M. Cohn, sanitary engineer of Schenectady and chairman of the Mohawk Valley Sanitation Council is consultant.

Assemblyman Harold C. Ostertag, chairman of the joint committee, said last week that he had appointed a subcommittee on pollution abatement to include legislators, conservationists, representatives of industry and of the state municipalities. In addition, the state commissioners of health, conservation, agriculture, commerce, taxation and finance, and the attorney-general are members. This subcommittee plans to hold a series of regional conferences during the next several months to discuss pollution problems with representatives of localities.

Preliminary reports indicate that, although there has been no formal program, the state has already made considerable progress in eliminating the discharge of domestic sewage, and some progress in industrial waste treatment. More than 100 municipalities have sewage treatment plants on their postwar building agendas—a great many of which will consist of improvements to existing plants.

Indiana, Tennessee work

Four industries in the Calumet area of Northern Indiana have arranged to cease pollution of the waters of Lake Michigan in cooperation with a state-sponsored campaign. Twenty other industries in the northern part of the state, as well as the state of Indiana and the cities of East Chicago, Gary, Whiting and Hammond are to make arrangements not to discharge raw sewage and industrial waste into Lake Michigan.

The Inland Steel Co. will erect its own waste treatment plant, costing $1,000,000 for its East Chicago works; Sinclair Oil Refining Co. which now sends its sewage to the East Chicago treatment plant, will install oil separators at a cost of $750,000 to prevent the discharge of oil waste into the Indiana Harbor Ship Canal; Shell Oil Co. of East Chicago will continue connection with the Hammond sewerage system to provide for disposal of both sewage and oil waste, and American Maize Products Co. will spend $100,000 for additional equipment to end the discharge of sugary and starchy industrial wastes.

Tennessee cities get temporary permits

According to R. P. Farrell, secretary of the Tennessee Stream Pollution Board, there are 429 municipalities within the state that still use streams to take care of sewage and that each of these must apply at once for a renewal of the right to do so.

It is the plan of the board to stop all pollution of streams with sewage and these renewals are being granted only because of the difficulty of constructing sewage disposal plants at this time. As soon as possible further permits will be denied.

Calif. cities ok $22 million sewer work

Councilmen of six cities in metropolitan Oakland, Calif., have voted approval of a $22,456,000 sewage disposal system and will present a bond issue proposal to voters in November.

Formal action by the councils followed the endorsement by a board of consulting engineers including: Samuel A. Greeley, Clyde C. Kennedy and N. T. Veach of a plan developed by the East Bay Municipal Utility District. (*ENR* June 20, vol. p. 949)

The proposed system, one of four offered by EBMUD engineers, will eliminate pollution of shore waters that has troubled Oakland, Berkeley, Alameda, Piedmont, Emeryville and Albany for several decades. Raw sewage discharged into bay area waters from 43 outlets had been backed up by high tides and then spread out by receding tides to cause disagreeable odors and endanger health.

The state board of health finally prohibited the discharge of untreated sewage after January 1947, granting an extension if the cities would take definite steps toward installation of a system.

The system will center on one treatment plant, to which sewage will be brought by interceptor mains more than 20 miles in length. From the plant, effluent will be pumped more than a mile out into the bay, to be discharged in swift currents that will carry it away from the shore.

The approved project, as described by John S. Longwell, chief engineer and general manager for EBMUD, will include three intercepting mains, to cost $10,280,000; four pumping stations, $792,000; a treatment plant, $6,789,000; a flocculation plant, $396,000; an outfall line to the bay, $3,301,000; a sludge drying plant, $700,000, and land costing $198,000.

Actual construction is expected to take from 24 to 30 months, but preliminary field engineering and trial operations would extend the installation over about a 3-yr. period.

The interceptor lines will collect sewage from all present outlets. The north sewer will collect sewage from Albany, Berkeley, Emeryville and part of Oakland, its diameter increasing from 33 to 96 in. Flow will be entirely by gravity.

The south interceptor will serve East Oakland, Piedmont and Alameda and taper from 42 to 99 in. The Alameda lateral will be in two parts, one increasing from 24 to 51 in., the other from 24 to 30, joining at a booster pumping station which will force sewage through a submarine crossing of the Estuary into the main south interceptor.

At the treatment plant sewage will be settled, and the effluent pumped through a 96-in. tube 6,000 ft. offshore, where it will be discharged into 40 ft. of water in a heavy tidal current.

The project, when constructed, will cost an estimated $1,253,900 annually, including $503,700 for operation and $750,200 for debt service. Comparisons of per capita costs of the project with those of cities having similar installations show both construction and operating costs close to average, Mr. Longwell reported.

Akron 1941 sewer blast damage claims settled

Damage claims—originally totaling more than $1,000,000—arising from a sewer explosion in Akron, Ohio, Dec. 11, 1941, have been settled by the city for $69,842.

Covering 26 of 28 claims filed, the settlement was largely on the basis of from 15 to 20 percent of the damage originally claimed in each case. Of the total, the city will pay $25,572 and the B. F. Goodrich Co. $44,270.

There were three fatalities and many injuries in the accident.

The cause of the explosion has never been determined definitely although, after an investigation of several weeks, an agent of the Industrial Commission of Ohio implied that in a measure the Goodrich Company was responsible. This the company has never admitted in any discussion of the matter.

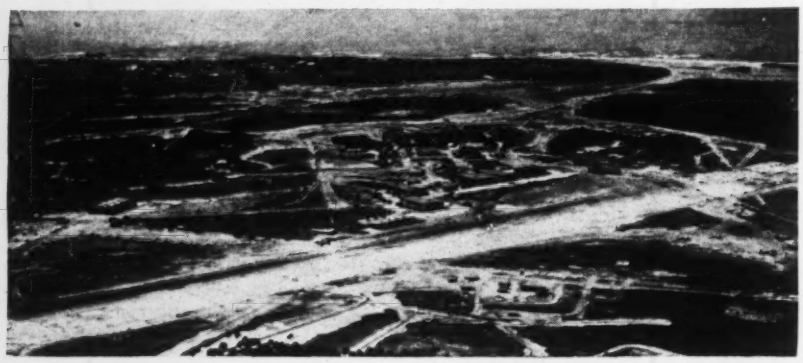
U. S.-built air outposts in Atlantic area shown

Army releases first air views of fields it built during wartime from Greenland to African coast.

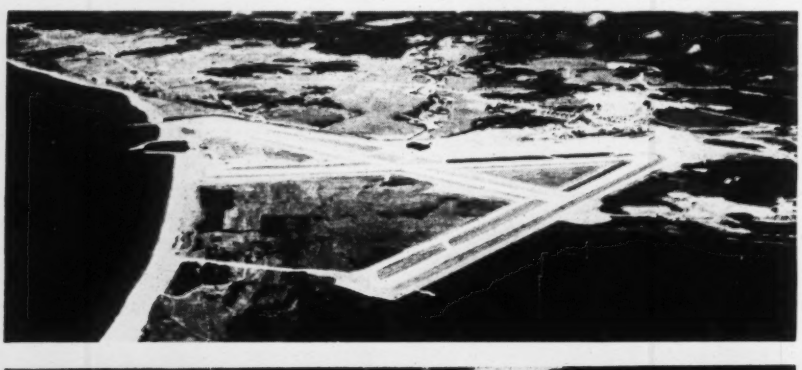
Released for the first time are photographs of the elaborate wartime airfield installations built in the Atlantic Ocean area by the United States, from the Arctic Circle to below the Equator. Planes bound from this country for the European combat theaters used these fields as interim stops for supplies and fuel. U. S. fighting planes used them as bases for offensive action against Axis submarines. As Air Transport Command bases they helped forward vital manpower and supplies. Some of them are destined to play an equally important part in peacetime transoceanic operations.

Photographs were not available to show all of the fields built by the United States in British possessions in the West Indies, such as the bases on St. Lucia, Antigua, Jamaica, and Trinidad Islands. All of these fields were used extensively during the war. Also constructed by the U. S. in the Caribbean were Batista and San Julian fields in Cuba. One of the four U. S.-built fields in Greenland is

Ascension Island, (above) in mid-Atlantic between Brazil and Accra on the Gold Coast in Africa, is the location of Wideawake Field, only available stop on the South Atlantic hops. The single runway is 6,500 ft. long and 150 ft. wide.



One of the southernmost bases to be constructed on the west coast of Africa was Takaradi, (above) near the town of Accra, Gold Coast. This field was an important stop for the ACT.



Stephensville field in Newfoundland—probably the most frequently used stop on North Atlantic flights. Also known as Harmon Field, it is located near St. George's Bay in southwest Newfoundland. The three runways vary from 5,000 to 5,850 ft. in length and are 500 ft. wide, consisting of a 150-ft. concrete center strip and two 175-ft. asphalt-surfaced shoulders. The buildings number over 140 and many are of permanent construction. General contract was held by a combination of Al Johnson Construction Co., Nick F. Helmars, Inc., McWilliams Dredging Co., and A. Guthrie & Co., Inc., all of New York. The firms of Shreve, Lamb and Harmon, New York, and Fay, Spofford and Thorndike, Boston, were architect engineers. (picture at left).

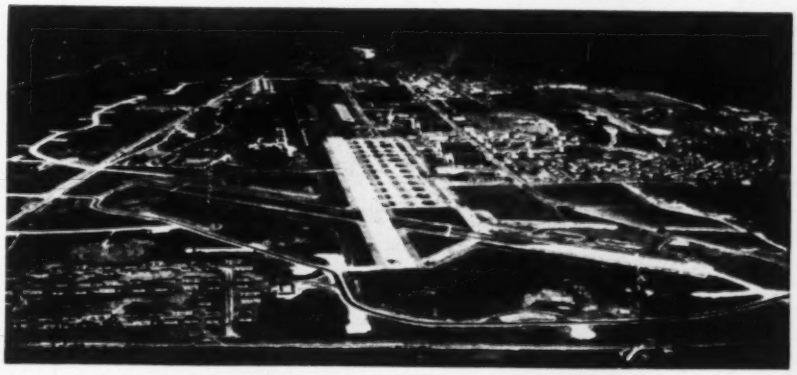
Greenland Base, (lower left), known as Bluie West 1, located at the southern tip of the subcontinent near the town of Julianehaab, is halfway between Stephensville and Iceland. Frequently referred to as Narsorssuak Field, this base required construction of 311 buildings mostly of temporary design but including two permanent hangars. Two asphalt-surfaced runways from 5,000 to 6,500 ft. long are available. The boulder-strewn glacial moraine upon which the field is located, severe weather, extreme tides and lack of harbor facilities made construction difficult. Contractors were: Nick F. Helmars, Inc., and the McWilliams Dredging Co., New York. Architect-engineers were the same as for the Newfoundland base.

shown. Goose Bay airfield in Labrador, and Gander field in Newfoundland were built by Canada and thus are omitted.

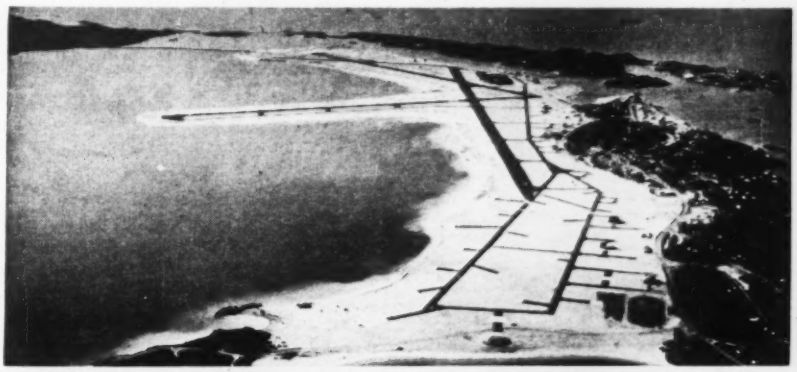
Only two of the several bases built in South America are shown—Atkinson Field near Georgetown, British Guiana, and Adjacento Field at Fortaleza, Brazil. But numerous other fields were constructed along the lengthy eastern coast of Brazil, including that at Belem; the large field at Recife; the base near the town of San Luiz, and the big base at Natal. The latter field was the "hopping off" spot for the trip across the South Atlantic. A field was also constructed at Rio de Janeiro.

Construction of Wideawake Field on Ascension Island would have been of little value without fields on the west coast of Africa, and a string of airbases were constructed from the Takoradi Field (p. 8) in Accra on the Gold Coast northward to Marrakech Field near Casablanca, French Morocco. This string included Mallard Field at Dakar and Tindouf and Roberts fields in Liberia.

American forces also constructed a large field on Santa Maria Island in the Azores. The work of building this base will be described in detail in an early issue of *Engineering News-Record.*



Borinquen Field, Puerto Rico, (above), biggest of Caribbean area installations, is a permanent military base. Two runways 150 ft. wide and 3,400 and 9,000 ft. long are provided. Many B-29 bomber crews were trained here and later the base became an important link in the demobilization of troops from Europe. The large number of permanent structures provided include three large reinforced-concrete hangars with barrel-type roofs. McCloskey and Co., Philadelphia, was the general contractor. Graham, Anderson, Probst and White, Chicago, was the architect-engineer.



Bermuda Base, (second from top at right), used for both transport and submarine patrol planes, required over 35,000,000 cu. yd. of hydraulic fill to create its 750-acre site. Development of an adequate water supply was another big task. Construction contracts totalled over $31,000,000. The three principal runways are from 5,000 to 8,300 ft. long, and there is an emergency landing strip of 3,200 ft. Runways provide a 150-ft. wide paved center strip and 175-ft. shoulders. Arthur E. Johnson Corp., Nicaro Co., Inc., and Vermilya-Brown Co., all of New York were the contractors. Ford, Bacon and Davis, New York, Metcalf and Eddy, Boston, and Shaw, Noess and Murphy, Chicago, did the architect-engineer work.

Atkinson Field near Georgetown, British Guiana, was carved out of the South American jungle on a site leased by the U. S. for 99 years. Steel mats were used for surfacing initially but later the runway extensions were paved with concrete, the length of the runways now varying from 5,000 to 7,400 ft. Elmhurst Contracting Co., Elmhurst, N. Y., was the general contractor. The Caribbean Architect-Engineers provided the A-E service.

At Fortaleza, Brazil, a base known as Adjacento Field (bottom, right) was built to provide a single runway 7,000 ft. long and 150 ft. wide. The field was important both in patrolling for submarines and in flights across the South Atlantic via Ascension Island.

Set "super" priority for re-use housing

Special assistance to speed completion of 200,000 temporary re-use veterans housing units to be built during 1946 was put into effect July 24 in the form of "certified-HH" and "HHH" priorities, the Civilian Production Administration announced.

The temporary units affected are for the most part being erected in municipalities as emergency housing, and at colleges and universities in need of living quarters for veterans entering in the fall semester. Materials fom Army and Navy barracks and war housing are being re-used in the program.

While previously existing rating of HH allow builders and contractors to obtain certain listed critical materials for veterans housing, CPA explained that the new order is necessary in specific instances where the HH rating may not assure delivery of materials in time to complete scheduled work.

This special assistance is temporary in nature to take care of this particular emergency program, and expires Dec. 31, 1946.

New York, Philadelphia plan subway parking

Plans for the construction of an underground parking area beneath Rayburn Plaza at Arch and Broad Streets, Philadelphia, Pa.—first of a series of off-street parking improvements in the city—were announced by Mayor Bernard Samuel July 13.

The sub-surface, two-deck garage, for which plans already have been prepared by the Department of City Transit, will have 6,200,000 sq.ft. of space for the storage of more than 900 automobiles.

The plans include a large lobby at each entrance, rest rooms for men and women, and offices and quarters for employes. The cost of construction is estimated at between $1,850,000 and $2,000,000.

New York considers plan

New York City is also considering the underground parking idea, but its plans are not as far advanced as those of Philadelphia.

However, on July 29 it was announced that engineers of the Board of Transportation and police traffic experts will study the practicability of using subway mezzanine and walkway space as parking garages. They will also examine Bryant Park back of the New York Public Library Building at Fifth Avenue and 42d Street as a likely place to build a 2-level underground garage.

NAILS, NAILS, NAILS

Within the next 30 days, about 12,000,000 lb. of surplus Army and Navy nails will become available for the Veterans Emergency Housing Program, it has been announced by Lieut. Gen. Edmund B. Gregory, War Assets Administrator, and Wilson W. Wyatt, Housing Expediter.

Since about 400 lb. of nails are needed for a 6-room house, the Army and Navy supplies are enough for about 30,000 houses.

Want Colorado River water for Central Ariz.

The Central Arizona Project Association, organized the first of July to concentrate all the resources and support it can muster to bring Colorado River water into that area, has announced the appointment of Howard J. Smith, public land adviser, as executive secretary. Wayne M. Akin, Phoenix, heads the association as president.

The association will attempt to bring together every organization in the state in a unified effort to complete the job of delivering Colorado River water to Central Arizona, Akin said and, he adds, "The Central Arizona Project Association will work with all other groups throughout the state in order that full benefit may be realized by Arizona in its rights to Colorado River water."

Indiana aids in shortage

To help fight a critical water shortage caused by the failure of a 200 gpm. well, Indiana state officials dispatched state-owned emergency pumping equipment last week to Huntington, Ind.

When the well—one of the city's principal water sources failed, Mayor Roy Howell issued an emergency conservation order barring sprinkling of lawns, washing cars or any other wastage.

There was no immediate explanation of the well's failure.

Cleveland considers expansion

Consumption of water in Cleveland, Ohio, is now at an all-time high and as a consequence steps are being taken to provide $15,000,000 to finance immediate expansion of water facilities.

Utilities Director Emil J. Crown recommended such financing and Finance Director Joseph T. Sweeny believes that it can be done on mortgage revenue bonds. The initial request for $15,000,000 is part of a 5-year plan for expenditure of $27,000,000 to give the entire county of Cuyahoga reliable and unlimited service.

Big new home project at Snell Isle, St. Petersburg

A large residential development project is being considered for Snell Isle, St. Petersburg, Fla. Present plans call for the platting of virtually the entire island, with $5,000,000 to be spent by landscape experts before actual sales begin.

As designed by George F. Young, the project will cover some three miles of waterfront on Tampa Bay from Shore Acres bridge to Coffee Pot bayou. When completed the subdivision will surround Sunset golf course, provide a 100-ft. boulevard and connecting network of avenues covering the island, with yacht basins and piers on the bay.

Surveying and platting of homesites already is under way, and it is said that fully developed lots will be on the market in six months.

Grant cement priorities for Oregon vets' housing

Priorities on cement have been established in Oregon by the Civilian Production Administration to speed construction of veterans' homes.

Builders who have veterans' priorities and who had forms ready to receive concrete as of July 1 will receive cement priorities. After their needs are filled, a plan will be set up for builders who have not yet reached the concrete pouring point.

Oregon is the only state to receive this special home cement priority, the CPA said, because the shortage is more acute there.

St. Louis creates agency to conduct rat fight

St. Louis took an important step toward a sharp reduction of its rat population recently when the board of aldermen passed unanimously a bill sponsored by Mayor Aloys P. Kaufmann that creates a rat control section of the Health Division of the Department of Public Welfare.

The ordinance provides that all buildings and residences must be so constructed as to prevent rats entering therein, and also that all rats must be eliminated at once. If repairs are necessary to accomplish this the Health Division is authorized to do the work at the property owner's expense should the owner refuse to make the repairs. The accumulation of lumber, boxes, barrels or stones which might serve as a shelter for rats is forbidden.

Wage controls go back on construction industry

Wage controls have been reimposed on the building and construction industry just as if the OPA Act had never expired. This means that the legal wage rate is that which was properly in effect on June 30, unless an increase (or decrease) has since been approved by the Wage Adjustment Board in Washington.

Arthur D. Hill, Jr., WAB chairman, explained the situation thus:

No violation proceedings will be taken against employers for wage adjustments put into effect between June 30 and July 25—when President Truman signed the new OPA law, provided that:

(1) Application for approval of such adjustments should be filed by Aug. 10, and will be acted on under "emergency procedures." If requested, higher rates will be approved retroactively to July 25.

(2) All wage adjustments hereafter require prior WAB approval before they may be put into effect. Applications for approval must be filed directly with the Wage Adjustment Board, Department of Labor building, Washington 25, D. C.

The National Wage Stabilization Board will complete action in some 7,000 pending cases of alleged violation of wage controls, mostly in the building and construction field.

"Road Show" delayed until early 1948

J. T. Callaway, president of the Manufacturers Division of the American Road Builders Association has announced that the first post-war Road Show will be held in the early part of 1948. It had been expected that this display of road building and other construction equipment would be possible early in 1947.

Mr. Callaway pointed out that strikes and government regulations, including large scale allocation of machinery to foreign governments, have delayed production of machines as well as development of new models.

Massachusetts courts approve river pipeline

The Supreme Court of Massachusetts has upheld a lower-court ruling approving the granting of a permit to the Colonial Beacon Oil Co., Boston, to lay a 4-inch pipe line on the bed of the Merrimack River between the towns of Dracut and Andover, Mass., approximately five miles above the intake of the city of Lawrence water supply (*ENR* Dec. 6, 1945, Vol. p. 766).

Study approach plans for Golden Gate bridge

Freeing of Pa. toll spans blocked; other highway bridge developments noted

Five plans for a new Marin County approach to the Golden Gate Bridge at San Francisco have been submitted for study to the Golden Gate Bridge and Highway District by the California Highway Division, A. R. O'Brien, district president, reports.

The present Waldo Approach is a 4-lane highway frequently clogged when trucks are slowed by its 5½ percent grade.

Four of the plans call for routes along Sausalito's water front, while the fifth would be located halfway between the waterfront and the existing approach. Cost estimates range from $5,412,300 to $17,144,000.

A plan for the approach must have the approval of the district and the state department of public works before being put under construction.

Court blocks Pa. bridge action

Plans of Gov. Edward Martin of Pennsylvania to use motor funds to buy and free the state's ten remaining toll bridges, met with at least a temporary setback when the Dauphin County court held unconstitutional.

The court ruled in an unanimous decision that an amendment to the constitution approved by the voters in 1945 bars the use of up to $7,000,000 appropriated from the motor fund by the legislature for bridge purchases.

Lake Washington traffic up

Traffic over Seattle's five Lake Washington Canal bridges has increased 55 percent in less than two years to a new high level, City Traffic Engineer J. W. A. Bollong reports.

Traffic on the bridges, which serve the North End residential districts and north bound highways, has mounted from 94,500 vehicles per 24-hour day in 1944 to a present high of 146,000, with 26,000 of the increase coming in the 11 months following V-J Day.

Canadian plans

On June 8 Premier Maurice Duplessis of Quebec announced that a $3,000,000 bridge over the St. Maurice River, between Three Rivers and Cap de la Madeleine will be built.

A $1,000,000 credit had been voted by the legislature for this bridge, which will run straight from Three Rivers to Cap de la Madeleine, over Ste. Christophe Island, located between the eastern and western branches of the St. Maurice River. The contract has been awarded to Dufresne Engineering of Montreal.

See long delay in report on new Rio Grande Dam

A three-to-six-month delay in submission of the combined U. S. Engineer-Reclamation Bureau report on the feasibility of a dam in the middle Rio Grande valley in New Mexico was forecast recently by Col. H. F. Hannis, district engineer at Albuquerque, who announced that further exploratory surveys will be made.

The joint report has been some two years in preparation, as engineers considered a proposed dam site on the New Mexico-Colorado state line which would call for expenditure of about $40,000,000 for construction for flood control, irrigation and hydro-electric power.

Proposed construction of the dam has already aroused opposition from the Elephant Butte district in lower New Mexico, and the State of Texas.

'Quake made resoundings necessary in B. C. waters

Fresh soundings will have to be taken in waters off the coast of Vancouver Island in British Columbia because of the effects of the June 23 earthquake (*ENR* July 4, vol. p. 6) officials of the Canadian Hydrographic Department announce.

At Deep Bay, the bottom is reported to have sunk from 9 to 84 ft. Where a beach once existed at the mouth of Cottonwood Creek, soundings now are said to reveal 100 ft. of water, as is also the case in former shallows at the mouth of Little Shaw Creek.

The general level of Cowichan Lake near Duncan, B. C., is reported to have sunk 10 inches. Whole beaches have disappeared, leaving sheer drops to deep water, according to Game Commissioner F. Weir and A. A. Sherman of the Dominion Department of Fisheries.

ARIZONA TO REFUSE ROAD BIDS 10% OVER ESTIMATES

The Arizona state highway commission said last week that it had notified all highway contractors that it would award no state road jobs on which bids were 10 percent in excess of engineering cost estimates.

State engineer W. C. Lefebvre emphasized the warning on July 10, when he rejected all bids on construction of a railroad overpass on the Flagstaff-Winslow highway. The lowest bid, Mr. Lefebvre said, was 26 percent above the state's estimates.

Men and Jobs

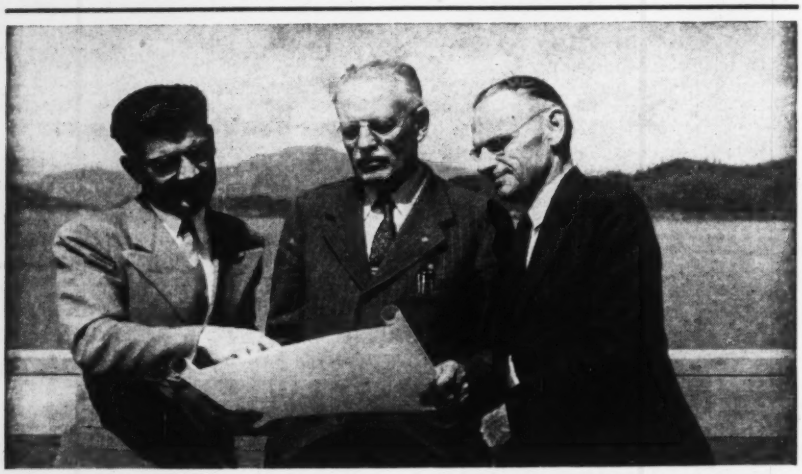
Floyd McNulty has resigned as city engineer of South St. Paul, Minn., and will enter the contracting business. **Edgar C. Swanson,** his assistant, has been named acting city engineer by the city council.

J. B. Whitton, town engineer of Renfrew, Ont., has resigned. His future plans are not announced.

Samuel D. Cooper and **C. Reginald Perry** have formed Cooper & Perry for the general practice of engineering and architecture at 204 Journal Building, Knoxville, Tenn. Mr. Cooper was graduated from Carnegie Institute of Technology in 1936, Mr. Perry from the University of Texas in the class of 1934.

Ernest A. Tarr, Berkeley, Calif., engineer, is now city engineer in Albany following his appointment to succeed **U. R. Grey,** who resigned to become city manager of Delano.

Leo Tonetti, assistant Burlingame, Calif., engineer since 1938, and **Harry Frey** who has been employed in the engineering department for the last two years, have resigned to follow **Cecil E. Longson** who resigned as city engineer to enter private engineering business with Earl Wilsey and Charles T. Broughton. Both Tonetti and Frey will be employed by Welsey, Broughton and Longson.



Inspecting work on Shasta Dam, Calif., Bureau of Reclamation engineers stop for a parley atop the dam. Left to right are: James K. Carr, district engineer at Chico; Irving C. Harris, acting construction engineer at the dam, and Walker R. Young, chief engineer of the bureau.

Informal discussions at a recent joint meeting of the engineering and technical societies of Virginia at Norfolk included this group. Left to right: H. H. George III, city manager, Norfolk; D. E. Donley, Hampton Roads; R. A. Marr, president, Virginia section, ASCE; Col. E. E. Gesler, division engineer, Middle Atlantic Division; and H. H. Hale, secretary, American Association of State Highway Officials.

V. E. Howard, bridge and building superintendent, Canadian National Railways, Jasper, Alta., is retiring after 35 years service.

S. W. Gentle, an employee of the South Dakota State Highway Department for a number of years, has been appointed city engineer at Yankton, S. D.

E. M. Whitworth of Phoenix, Ariz., has been appointed administrative assistant to State Engineer W. C. Lefebvre. He was superintendent of the motor vehicle division a number of years ago and in recent years has been an inspector for the Interstate Commerce Commission.

Guy Long has been appointed division engineer of The Baltimore and Ohio Railroad for the Akron, Ohio, division, succeeding **W. E. Kearfott,** transferred to Punxsutawney, Pa., as division engineer for the Buffalo division.

Truman Schlup, city engineer of Kansas City, Kan., has resigned to practice civil engineering with office at 918 North Tenth Street, Kansas City, Kan. He will retain his part-time post as engineer for the Kaw Valley Drainage Board.

Niles, Ohio, has employed **Gerald Gimrie,** Nashville, Tenn., engineer, to draft a zoning plan for the city. He formerly was Youngstown, Ohio, planning commission engineer and drafted that city's original zoning ordinance.

Charles E. Hatch has resigned as engineer of the Toledo-Lucas County, Ohio, plan commissions, to go into business as a consulting plan engineer.

The North Dakota State Water Commission, Bismarck, has appointed **J. J. Walsh** secretary of the commission and chief engineer to fill the vacancy left by the resignation of **John T. Tucker,** who had been in that position prior to his service in the Navy and who now has been appointed civilian superintendent of the Naval proving grounds at Fort Hueneme, Calif. Walsh has been with the commission since 1937 and was acting secretary-engineer while Tucker was away.

R. E. Pontow has been engaged as assistant city engineer of Redwood City, Calif., to assist City Engineer **Don S. Wilson.** Pontow was formerly a soils engineer for the Iowa State Highway Commission, specializing in stabilized bases, concrete pavements and subgrades for the state's highways.

J. R. Benson, acting city manager of Wilmington, N. C., since A. C. Nichols resigned May 1, has been named city manager.

About District Engineers

The following changes in district engineers have been announced by the Office of the Chief of Engineers:

Duluth, Minn., **Col. Heston R. Cole** is assigned as district engineer of the Duluth, Minn., engineering district, vice **Col. Kenneth M. Moore**, relieved, who remains assigned to the district.

Effective upon departure of Col. Wilson B. Higgins, **Col. Paschal N. Strong, Jr.**, formerly at Cincinnati, Ohio, is assigned as District Engineer, of the Savannah, Ga., Engineer District.

Col. Henry J. Woodbury, division engineer, Antilles Department, is assigned additional duty as district engineer, Puerto Rico District.

Col. W. W. Wanamaker has been appointed district engineer at the new Corps of Engineer district office at Garrison, N. D.

Appointment of two new district engineers and five new assistant district engineers has been announced by Charles H. Sells, N. Y. State Superintendent of Public Works. **Lacy Ketchum**, who has been serving as provisional district engineer at the Utica district office, was confirmed in his present post. **George L. Nickerson**, assistant district engineer at the Poughkeepsie district office, will succeed **Peter J. Lamb** as district engineer in charge of the Albany district office. Mr. Lamb, who has been acting district engineer in Albany, will resume his permanent post as assistant district engineer.

Samuel Ehrinrich, Elmer Youngmann and **John Ettinger**, who have been serving provisionally as assistant district engineers at Hornell, Buffalo and Babylon offices respectively, were confirmed to their present posts. Edward Stickney, assistant district engineer at Albany has been transferred to a similar post at Utica and Albert Erskine, associate civil engineer at the Buffalo office, was named assistant district engineer at Poughkeepsie. All appointments were made from civil service promotion lists.

Col. Walter K. Wilson, Jr. who served three years in the India-Burma theater, has assumed the duties of St. Paul district engineer for the U. S. Engineer Office. He succeeds **Maj. Henry J. Manger**, who will remain in the district in another capacity yet undetermined.

Back to Civilian Activity

James D. Williams and **Donald K. Harmeson**, captains, have returned as senior sanitary engineers to the Illinois Division of Sanitary Engineering, Department of Public Health. Both were with the Sanitary Corps.

Ralph D. Howell, major, Corps of Engineers, has rejoined the building firm of E. W. Howell Co., Babylon, N. Y., after three years absence. He was post engineer at the Army Air Forces Convalescent Hospital, Pawling, N. Y.

Harry Schmitt, captain, who recently returned from overseas service, has been reinstated as manager and engineer of Shorewood, Wis.

F. E. Nevin, discharged after 32 months in the India-Burma-China theater with the Army Engineers, has been appointed assistant city engineer at Ottumwa, Iowa.

L. A. Cline, captain, recently returned from the Civil Engineer Corps, U. S. Navy Reserve, in the Aleutians and Central Pacific, is now vice-president of the United Concrete Pipe Corp., Los Angeles.

James Rough, major, back from the Army is at his old post as city engineer of Hibbing, Minn.

Frank M. Williams, after three years Army service, is Ohio district engineer for the Clay Sewer Pipe Association at Columbus.

Walter B. Little, major, Alaska Engineer District liaison officer at Seattle, is on terminal leave from the Army and will return to the Seattle Engineer District as a civilian, to head the Alaska Division.

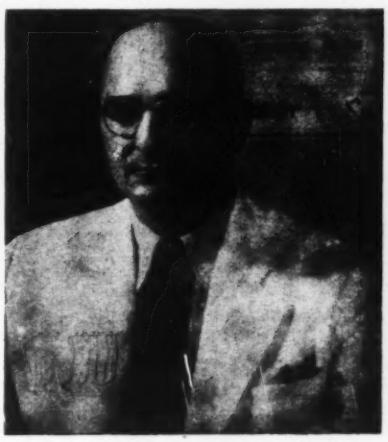
R. G. Barrows, colonel, who served as district engineer of the Detroit District and later division engineer of the Great Lakes Division, U. S. Army Engineers, Chicago, before being assigned to the Tenth Army in Okinawa, has retired from the Army and will soon join the Blanchard Machine Co., Cambridge, Mass.

Edgar B. Boynton, lieut. colonel, Corps of Engineers, and **W. Martin Johnson**, lieut. colonel, Sanitary Corps, after about three years in the service have returned to Wiley & Wilson, consulting engineers, Lynchburg and Richmond, Va.

John J. Ledbetter, recently released from the Army, has been made executive secretary of the Texas Society of Professional Engineers, Dallas.

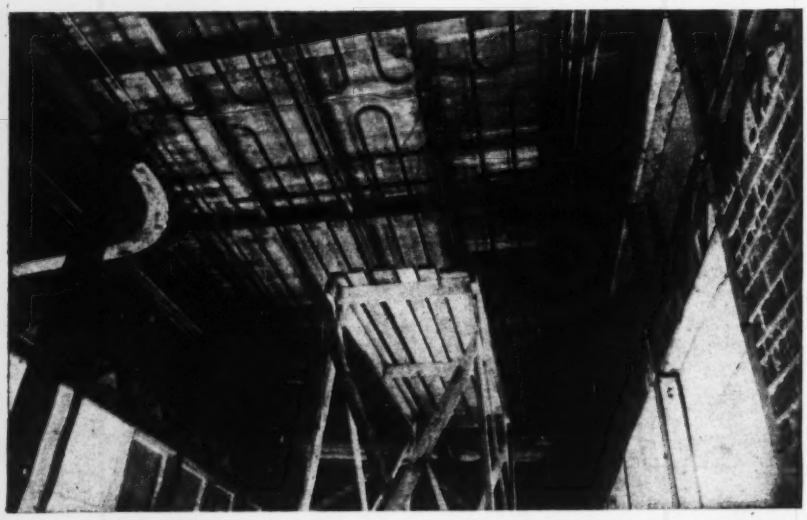
John Haugen, after overseas service with the 12th Engineering Battalion of the 8th Division, and **Denver Graham, Jr.**, B-29 flight engineer, have joined Corwin & Co., consulting engineers and architects, Great Falls, Mont. Other veterans who have joined the Corwin staff are **Joseph Pahl, Ivor C. Richards, James Gipe, Vernon Van Orsow, Bernard Keaster** and **Fred W. Ayer.**

W. E. Somero is back from service and has resumed his former position as city engineer of Ely, Minn.

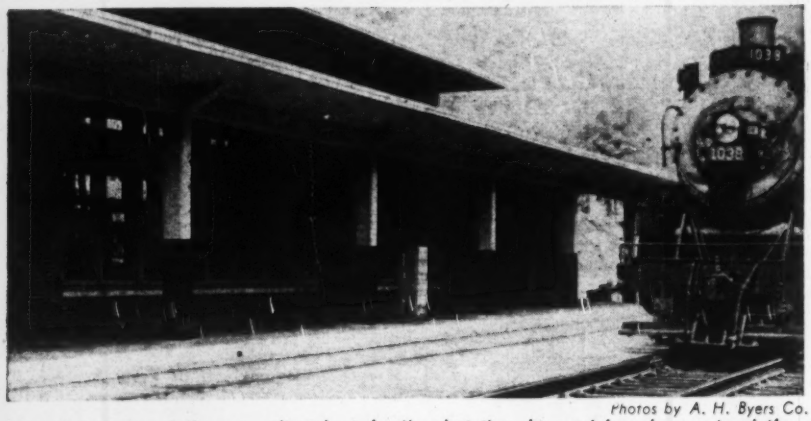


Engineers responsible for the construction of the mammoth steel mill at Volta Redonda, Brazil (ENR July 25, vol. p. 120) are: Macedo Soares E Silva (left) technical director of the project; and Leighton F. Korb, assistant technical director. Mr. Soares recently was appointed Brazil's Minister for Communications and Public Works.

Floor coils in what is said to be the country's first radiant heated railroad station are fabricated of 1-in. wrought iron pipe, positioned on a 4-in. structural concrete floor slab, embedded in 1¼ in. of sand and covered with a layer of concrete topped by terrazzo.



Ceiling coils in the Prince, W. Va., station, are of 1¼-in. wrought iron pipe, suspended from metal hangers. Ceiling is 17 ft. high, constructed of perforated metal with a 1-in. layer of sound-absorbing material.



Photos by A. H. Byers Co.

An exterior view of the new radiant heated railroad station shows reinforced concrete platform and canopy. Station serves several surrounding West Virginia communities.

Install radiant heat in W. Va. rail station

C & O railway builds basement-less depot, placing wrought iron pipe in both ceiling and floor

Radiant heating pipes have been installed in floor and ceiling of a one-story railroad station completed recently by the Chesapeake & Ohio Railway Co., at Prince, a small community in the New River Valley of West Virginia.

The new structure, serving several surrounding communities in the foothills of the Appalachians as well as the industry and coal mining center of Beckley, W. Va., is claimed to be the first station in the United States to be thus heated. It is considered a model for future stations to be built by the Chesapeake & Ohio.

Eliminates basement

Without a basement, this railway station was equipped with radiant heat to eliminate cold, damp floors, and to insure maximum comfort. The structure, 125 ft. long and 22 ft. wide, contains a waiting room, 55 ft. by 20 ft. In this waiting room, wrought iron radiant heating pipes were installed, both in the ceiling and the floor.

The ceiling, 17 ft. high, is made of perforated metal with a 1-in. layer of sound absorbing material. Topped by 2 in. of insulation, the tar and gravel roof is on 4 in. of concrete. The floor consists of a 4-in. structural concrete slab, above which is 1¼ in. of sand in which the 1-in. wrought iron pipe for the heating system is embedded, and the whole is covered with concrete surfaced with terrazzo. With the heating system concealed, more floor space is available.

Heating coils in floor

Floor coils are spaced on 18-in. centers, whereas ceiling coils are spaced on 12-in. centers. The heating system is laid out in two zones—one serving the waiting room and rest room, and the other covering the baggage room, which is 35 ft. by 20 ft. Each zone has individual supply and return water mains to the boiler room.

Hot water for the radiant heating system is supplied from a stoker-fired coal boiler, water being forced through the whole of the system by circulating pumps.

Garfield, Harris, Robinson & Schafer, of Cleveland, were architects; John P. Pettyjohn & Co., Lynchburg, were contractors. The heating system was designed by John Paul Jones, Cary & Millar, consulting engineers of Cleveland, and was installed by T. R. Johnson, whose office is located in Huntington, West Virginia.

Industrial construction increases pace

Typical of the ever-increasing amount of industrial construction planned or actually begun are three major jobs reported from Illinois, Alabama and California:

Application has been filed with the Civilian Production Administration by Aluminum Company of America for permission to erect a plant in Des Plaines, Ill., for the manufacture of aluminum die castings.

The plant would be built on a 35-acre site and include manufacturing, service and office buildings, with a total floor space of about 190,000 sq. ft. Possible future expansion might nearly double the plant area.

The new plant would be able to serve Alcoa's die-casting customers in the midwestern territory more adequately and conveniently than the present plant in New Jersey, the announcement said.

At Mobile, Ala., the Waterman Steamship Co. plans to build a 22-story office building at a cost of $2,600,000, following issuance of a permit by CPA.

J. T. Ewin, Inc., Mobile, has been awarded the general contract for the job, and Roberts & Long, Mobile architects, will handle that phase of the work. The building will be of concrete, steel and masonry construction.

California jobs

Pacific Coast Aggregates, Inc., has launched a $3,500,000 expansion program in the San Francisco Bay area, involving building of new plants and service facilities which will double its production of rock, sand, gravel and concrete and asphalt mixes. Contracts for $2,500,000 already have been let and construction is under way on projects in Eliot, Tracy and Oakland, A. K. Humphries, president, reported.

Erbentraut & Sommers, San Francisco, have the concrete contracts; Western Pipe & Steel, San Francisco, the steel work, and R. Goold & Son, Stockton, the railroad track contract. Berkeley Steel Construction Co. will handle truck bunkers at the Eliot plant.

Major feature of the development is a $1,500,000 plant at Eliot, including a batching plant for production of concrete and a central asphalt mixing plant. A similar installation, costing about $600,000, will be built at Tracy and a $200,000 yard and warehouse will be constructed at Oakland.

Columbia Steel Co. officials announced that contracts for major portions of the work on the company's new $25,000,000 plant at Pittsburg, Calif., have been awarded to J. H. Pomeroy & Co. and the American Bridge Co., both of San Francisco.

The Pomeroy firm has a $6,000,000 contract for concrete foundations, paving, grading, pipe laying, trackage and a 600-ft. dock and a $500,000 contract for a brick and steel administration building, and industrial relations and hospital buildings. American Bridge will fabricate steel structures under a $3,000,000 contract.

Officials also reported that engineering headquarters for construction of the huge cold-reduction sheet and tin plate mill are being established in Oakland, Calif. The new mill, on a 24½-acre site along New York Slough, will have a building 1,600 x 974 ft., and will hold 27,000,000 pounds of new machinery. Motors totaling 40,000 horsepower will operate equipment turning out 500,000 tons of tin plate and steel sheet a year.

Building area limitation voided by N. Y. court

After a bitter fight by realty interests in opposition, the New York State Court of Appeals recently voided a zoning amendment approved in November, 1944, restricting the area of new buildings in the New York City retail business sections by limiting coverage of land to 65 percent.

The court affirmed a lower court decision that declared that the New York City Board of Estimate, in giving this amendment a 10 to 6 vote, had failed to approve it, since a unanimous vote was necessary in view of the protests of owners in the affected area.

Opponents of the measure want to retain the right to build on the whole surface of the land involved. Many favor the alternative plan suggested by Irving V. A. Huie, former member of the City Planning Commission, who advocated bulk zoning.

The voided amendment, included in the first substantial change in zoning regulations suggested since 1916, was intended to prevent further congestion due to overbuilding, by requiring that every structure be provided with enough space about it to assure sufficient light and air for its own occupants (*ENR* Dec. 28, 1944, vol. p. 835). As a result, permitted heights were reduced, setbacks increased and land coverage limited by fixed percentages.

In view of this decision it is expected that a bill will be introduced in the state legislature next year to extend the powers of the City Planning Commission.

Court of Appeals upholds Fay and Bove conviction

Joseph S. Fay and James Bove, American Federation of Labor union leaders, lost their long fight to stay out of jail for extorting $703.000 from contractors on New York City's Delaware water project when on July 23 the New York State Court of Appeals upheld their conviction.

Fay, vice-president of the International Operating Engineers Union, and Bove, former vice-president of the International Hod Carriers, Building and Common Laborers Union, were convicted March 15, 1945 (*ENR* May 22, 1945) and sentenced later to serve eight and a half to sixteen years and fined $500 each by Justice William H. Munson of the Supreme Court. The charges of conspiracy and extortion in connection with construction of New York City's new $300,000,000 watershed facilities were contained in indictments returned May 19, 1943.

At that time District Attorney Frank S. Hogan of New York County accused the labor leaders of exacting tribute of 1 per cent of all contracts on the Delaware project under threat of fomenting strikes or otherwise hindering progress on the New York City water-supply job.

TVA gets $40,000,000 for construction

An appropriation of more than $39,900,000, most of which is for construction, is provided for the Tennessee Valley Authority in the bill (H.R. 6777) making appropriations for government corporations, and which the President signed July 20. Of this total, $14,000,000 is earmarked for continued construction of Watauga and South Holston dams. Much of the remainder will be used for construction of transmission lines, relocation of highways, and other work.

Although the Senate had inserted $3,000,000 in the bill for beginning construction of a fertilizer plant near Mobile, Ala., in final form the bill contains no money for this project.

ELECT WOMAN ENGINEER

The Iowa Engineering Society has elected a woman to membership for the first time in its 47 years of existence. She is Ruth Evelyn Best, 25, a civil engineering graduate of Iowa State College and an employee of a Des Moines engineering firm. The new member is outnumbered by men, 605 to 1.

OBITUARY

Fred W. Stiefel, 52, tunnel engineer, whose work included supervision of the construction of various sections of the New York City subway system, died at Liberty, N. Y., July 25, as a result of an automobile accident. He was president of the Stiefel Construction Corp., but most of his work had been done for Samuel R. Rosoff, Ltd., contractors. Mr. Stiefel received his engineering degree from Columbia University, and in 1910 he joined the Lawyers Engineering and Surveying Co. of New York, then engaged in constructing sewer lines in New York. After work with the N. Y. Public Service Commission and the Mason & Hanger Co., he joined the Rosoff firm in 1925.

The underground projects on which Mr. Stiefel worked included, besides sections of the N. Y. subway system, the Queens midtown tunnel, the Holland tunnel, and a 15-mile stretch of the Delaware aqueduct. He was also associated with the construction of the new Gatun locks of the Panama canal in 1940.

Two years ago Mr. Stiefel received the Construction Engineering Prize awarded by the American Society of Civil Engineers for his company's work in sinking an inclined mine shaft and opening the Fisher Hill mine, opening an extensive iron ore deposit near Lake Champlain.

Ellsworth Marshall Rust, 67, co-founder and vice president of the Rust Engineering Co., died July 24 at Leesburg, Va. Mr. Rust also was vice president of the Rust Furnace Co., the Bolivar Clay Products Co., and president of the Woodbridge Clay Products Co., Woodbridge, Va. He was for many years secretary-treasurer of the Associated General Contractors of America.

In 1905 Mr. Rust founded the Rust Engineering Co. with his brothers, E. J. Lee and S. Murray Rust. He had been vice-president since that time.

James Chalmers McDonald, 71, superintendent of works of the Canadian public works department died at Ottawa, Ont., July 22.

John Autry McGuirk, 56, a consultant engineer with the War Assets Administration, and organizer of the J. A. McGuirk Consultant Engineers Co., Birmingham, Ala., died July 16.

Norton Q. Sloan, 61, died in Dayton, Ohio, July 24. A graduate of Ohio State University, college of engineering, 1907, Sloan supervised the construction of many buildings and industrial plants throughout Ohio. He was vice-president and secretary of Hillsmith & Co., engineers of Dayton. He was also an officer of the Frank Hillsmith, Inc., engineers, New York, the 43rd Street Warehouse Co., of Pittsburgh, Pa. and of the Dayton Hydraulic Co.

C. S. Landers, 66, New York consulting engineer, who specialized in foundation work, and was a prominent member of The Moles, died July 27. Among the buildings on which he had been in charge of the foundations were the Municipal Building, the Singer Building, the Trinity Building, American Telephone and Telegraph Building and the building of the Bankers Trust Co. A civil engineer graduate of Sheffield Scientific school, 1900, his engineering experience included work in Ecuador; tunnel work for the Pennsylvania Railroad under the Hudson River; the N. Y. City Delaware Aqueduct, and many large projects for the Foundation Co. Later, as an independent consultant he handled the foundations for the Woolworth Building and many other nationally known structures.

Robert E. Williams, 62, a Little Rock, Ark., consulting engineer for 25 years, died July 20 as the result of an automobile accident. He had been a member of the state board of engineer examiners.

Gunnar Sundman, 53, died July 20 in Redding, Calif. He had been an engineer with the state highway department.

Miguel A. de Quevedo, 83, prominent Mexican civil engineer, died in Mexico City July 15.

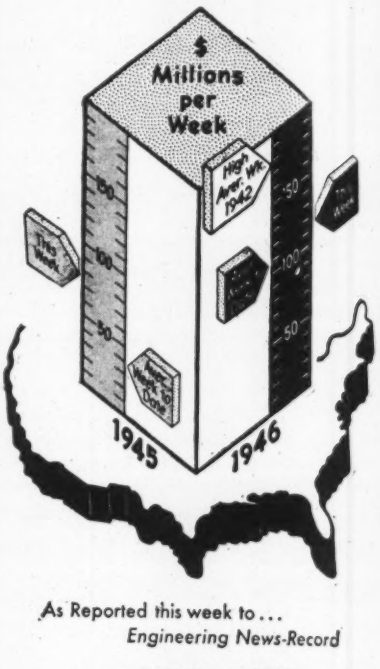
George E. Whitaker, 68, for three years assistant city engineer at East Liverpool, Ohio, died at Youngstown July 15. He was graduated from Ohio State University as a civil engineer.

H. W. Bashore named to Colorado water pact body

Harry W. Bashore, who resigned as Commissioner of Reclamation late in 1945 (*ENR* Dec. 20, 1945, vol. p. 832) last week was named by President Truman as U. S. representative in Upper Colorado River Basin interstate compact negotiations.

Appointment of a federal representative in the compact negotiations for division of the Waters of the Upper Colorado River was requested by the governors of Wyoming, Utah, Arizona and Colorado. As federal representative, Mr. Bashore will participate in negotiations and report to Congress on the proceedings and the compact finally negotiated.

CONSTRUCTION ACTIVITY



As Reported this week to ...
Engineering News-Record

CONTRACT VOLUME

Continental U. S. Only
(Thousands of Dollars)

	Week of Aug. 11 1946	Cumulative 1946 (31 wks.)	Cumulative 1945 (31 wks.)
Federal	$20,244	$493,759	$607,364
State & Mun.	35,343	815,135	186,156
Total Public	$55,587	$1,308,894	$793,520
Total Private	60,125	1,975,598	329,970
U. S. Total	$115,712	$3,284,492	$1,123,490

WHERE CONSTRUCTION ACTIVITY ORIGINATED THIS WEEK

Dollar Volume (Thousands)

Type of Work	This Week	Cumulative 1946 (31 wks.)	Cumulative 1945 (31 wks.)
Waterworks	$5,107	$61,474	$28,916
Sewerage	2,067	59,837	17,787
Bridges	2,142	78,093	20,405
Highways	22,602	472,263	131,305
Earthwork, Waterways	10,688	281,269	27,162
Buildings, Public	12,114	239,490	373,890
Industrial	24,019	620,914	214,842
Commercial	33,344	1,233,263	68,884
Unclassified	3,629	237,889	240,299

NOTE: Minimum size projects included are: Waterworks and waterway projects, $22,500; other public works, $40,000; industrial buildings, $55,000; other buildings, $205,000.

NEW PRODUCTIVE CAPITAL

	Cumulative 1946 (31 wks.)	Cumulative 1945 (31 wks.)
NON-FEDERAL	$1,000,808	$490,421
Corporate Securities	301,368	91,408
State and Municipal	474,440	235,413
RFC Loans	.....	200
REA Loans	.....	84,400
Fed. Aid Highway	225,000	79,000
FEDERAL	1,200,052	1,014,412
Total Capital	$2,200,860	$1,504,833

ENR INDEX NUMBERS

Index Base = 100		1913	1926
Construction Cost	July '46	353.89	170.11
Building Cost	July '46	266.13	143.86
Volume	June '46	344	151

CONSTRUCTION REPORTS

Bids Asked — Low Bidders — Contracts Awarded

(Daily service also available—Write for details)

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ELSIE EAVES, Manager *J. A. MAHONEY, Reports* *J. V. McEWEN, M. R. ROESSLER, Statistics*

WATER SUPPLY

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 5

N. Y., New York—Comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Zone 7, hauling, laying watermains, appurtenances, Ash, Plainview, 12, 54, 56, 60 and 72 Aves., Main, Beach 13, 47, 50, 116, 152, 162, 163, and 225 Sts., 46 and 54 Rds., 63 and 68 Drives, and in North Hempstead Turnpike, Queens Boro; Stanley, Stewart and 18 Aves., Mill and Thomas Sts., Shore Parkway and in Columbia and Nassau Cts., Brooklyn Boro. Plans deposit $1.

Bids Asked August 6

Colo., Grand Junction—City, fabricating and/or furnishinfi, del. c.i. pipe, fittings, steel pipe, accessories, waterworks valves, fire hydrants, water service materials and small pipe and fittings; also repairing No. 3 Reservoir. Plans deposit $25 each, returnable. R. J. Tipton & Assocs., Inc., 602 Insurance Bldg., Denver, Colo., engrs.; adv. ENR 8/1.

N. Y., New York—Comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Zone 7 hauling, laying watermains, appurtenances Hillside, 59, 69, 73 and 83 Aves., 159, 174, 194, 197, 198, 205, 206, 232, 264, and 265 Sts., 24 Rd. and in Horace Harding Blvd., Queens Boro. Plans deposit $1.

Bids Asked August 7

Pa., Phila.—Phila. Dpt. P. Wks., City Hall Annex, watermains Godfrey Ave., WW 1-143, over $25,000; Rioge Ave. WW 1-232, over $25,000; various sections of city, WW 1-268, over $25,000; Pattison Ave., WW 1-232, over $25,000. CD 1/23—ENR 2/7.

Bids Asked August 9

Calif., Los Angeles—Los Angeles Co. Sanitation Dist. 3, 1206 S. Maple Ave., 4,300 lin. ft. 24 in. and 21 in. vitr. clay sanitary sewer Broadway interceptor along east side of flood control channel, Anaheim St. to Broadway, Long Beach; 3,000 ft. 72 in. rein.-con. pipe, Dist. 3 Outfall, Unit 1, from Figueroa St. near Lomita Blvd. exten. south and east, over $40,000. 10,077 lin. ft. 30 in. vitr. clay North one-half of North Long Beach Trunk sanitary sewer from Golden Ave. to Pacific Ave., Long Beach. Plans deposit $5. A. M. Rawn, 1206 S. Maple Ave., engr.

Bids Asked August 14

La., Marrero—L. Marrero, pres. Sixth Dist. Drainage Dist., pump house alterations, addns. installing equip. at Sixth Jefferson Drainage Dist. Pumping Sta. Plans deposit $5. Godat & Heft, 314 Terminal Station Bldg., New Orleans, engrs.

Bids Asked August 20

Tenn., Cookeville—City, c/o Mayor, dam. Plans deposit $75. Hart, Freeland & Roberts, 3 Natl. Bank Bldg., Nashville, engrs. CD 4/5—ENR 4/18.

★**Wash., Olympia**—City, J. T. Trullinger, mayor, City Hall, developing McAllister Springs as source of supply by constructing 200 ft. rein.-con. dam, 2 m.g. rein.-con. reservoir, 150 x 202 ft. and 15 ft. deep, 1 mi. pressure and 7 mi. 36- to 42-in. gravity pipeline. $850,000. James W. Carey & Associates, Alaska Trade Bldg., 1917 1 Ave., Seattle, Zone 1, engrs. CD 11/11—ENR 12/12.

Bids Asked September 4

N. D., Carson—City, WW and sewerage sys. incl. well pump, 16,000 ft. watermains, storage reservoir, 20 hydrants, 25 valves and boxes, 44 manholes, Imhoff tank, sludge beds. Dakota Eng. & Const. Co., Valley City, engr. CD 2/28—ENR 3/21.

Bids Asked September 9

★**Ind., Evansville**—Bd. Water Works Trustees, City Hall, WW sys. expansion $1,250,000. B. E. Phelps, 622½ Franklin St., Michigan City, consult. engr. CD 7/23.

SOON LETS CONTRACT

Pa., Phila.—Barrett Div. of Allied Chemical Dye Corp., Margaret and Bermuda Sts., soon lets contract water lines. Over $25,000.

LOW BIDDERS

Calif., San Francisco—East Bay Municipal Utility Dist., 512 16 St., Oakland, July 17, Orinda Filter Plant addns., San Pablo Creek Hy. near Orinda, LS-366, from DeLuca & Son, 1745 Filbert St. $418,477.

Del., Wilmington—City, Bd. Water Comrs., 16 St. between Walnut and King Sts., water pump. station, from H. E. Baton, Inc., 1717 Sansom St., Phila., Pa. $217,700. Eddy & Metcalf, Statler Bldg., Boston, Mass., engrs. CD 3/11—ENR 3/21.

Ga., Thomson—City, July 16, addnl. water facilities, from Fiske-Carter Constr. Co., Spartanburg, S. C. $134,416. Est. $100,000. CD 6/21—ENR 6/27.

★**Ind., Evansville**—Bd. Water Works Trustees, City Hall, rejected bids July 9, WW expansion. $1,200,000. CD 7/17—ENR 7/25, under LB.

Mass., Boston—Metropolitan Dist. Water Supply Comn., 20 Somerset St., inverted siphon and appurtenant structures, Northborough, to Berke-Moore Co., Inc., Boylston St., Brookline. $197,758. Bids 5/1, awarded 7/19. CD 5/6—ENR 5/9, under LB.

Mo., Kennett—City, J. C. Karstens, mayor, rejected bids July 11, water and sewer extens. $65,000. Russell & Axon, 6635 Delmar Blvd., University City, St. Louis, 5, Mo., engrs. CD 11/19—ENR 11/22.

Pa., Somerset—Boro, Boro Hall, June 24, transmission and raw water mains, Contr. 1, from F. Kukurin, Wilmerding, $122,771. Rejected bids June 24, pump. station and well house, L.B. $102,000. CD 6/7——ENR 6/13.

Pa., Woodville—State Dpt. Property & Supplies, State Capitol, Harrisburg, July 17, installing high level water distr. sys., appurtenances, from Alfa Constr. Corp., 4629 Laenview Dr., Pittsburgh, $53,210, est. $100,000; high level storage reservoir, appurtenances, at Woodville State Hospital, from Fleetwood, Maue & Gettys, 1551 W. Liberty Ave., Pittsburgh, $67,000, est. $100,000. CD 7/1—ENR 7/11.

Tex., Pleasant Grove (near Dallas)—Dallas Co. Water Control & Imprvt. Dist. 2, c/o Jack Simms, 9-22 E. Buckner St., Dallas, water imprvs., to W. G. Cullum & Co., Gr. Natl. Life Bldg., Dallas, approx. $96,000. CD 2/13—ENR 2/14.

Wash., Centralia—City, City Hall, July 16, 16,000 ft. 18 in. supply main, from State Constr. Co., 1750 19 Ave. S., Seattle. $24,919.

★**Wash., Kelso**—City, City Hall, July 16, water filtration plant, and 1 m. g. reservoir, Units 1, 2, 3, from Fred J. Early, Jr. Co., 7 and Townsend Sts., San Francisco, Calif., $402,112; Unit 4, from Thorburn & Logozo, 4608 36 Ave., S.W. Seattle, $285,339. CD 6/12—ENR 6/20.

PROJECTS COVERED

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger: water supply, earthwork, waterworks $22,500; other public works $40,000; industrial buildings $55,000; other buildings $205,000.

Classes of Construction

(Name in order of Listing)

Water Supply	Latin America
Sewers, Waste Disposal	Public Buildings
Bridges	Commercial Buildings
Streets & Roads	Industrial Buildings
Earthwork, Waterways	Unclassified

Stages Reported

PROPOSED WORK: Including appointment of engineers or architects.

BIDS ASKED (new announcements only). For full calendar, see also preceding issues of ENR.;

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Symbols and Abbreviations Include:

†	Federal Government
★	Project of $500,000 or over
ENR	Engineering News-Record
CD	Engineering News-Record Construction Daily

Wash., Yakima—City, Pearl Benjamin, clk., water and sewer connections, from State Constr. Co., 1750 19 Ave. S., Seattle. $24,175.

CONTRACTS AWARDED

Ala., Jemison—Town, WW sys. imprvs., to The Sockwell Co., 156 Rodges St. N.E., Atlanta, Ga. $29,515. CD 6/21.

Calif., Hanford—California Water Service Co., 374 W. Santa Clara St., San Jose, 300,000 gal. steel water tank, south of Water St. between Harris and Brown Sts., to Pittsburgh-Des Moines Steel Co., Rialto Bldg., San Francisco. Est. $40,000. H. A. Harris, Jr., c/o owner, engr.

†**Calif., Port Hueneme**—Yards & Docks Annex, Navy Dpt., Arlington, Va., water lines, roads, tanks, etc., A.B.D., NOY 13728, to Green Mears Constr. Co. & R. R. Hensler, 3412 Ben Lomond Place, Los Angeles. $307,842. CD 6/5.

Fla., Miami—City, imprvs. water facilities, to W. L. Hailey & Co., Cotton States Bldg., Nashville, Tenn. $235,343. G. A. Welgand, 27 NW 2 St., ch. engr. CD 11/9/44—ENR 11/30/44.

Fla., Ocala—City, water storage tanks, own forces. $25,000.

Ga., Cairo—City, watermains, to Saine Co., Inc., Orlando, Fla. $69,995. CD 7/17.

★**N. Y., New York**—Bd. Water Supply, 120 Wall St., Contr. 384, excav. cutoff trench and constructing cut-off wall for Neversink Dam, grouting ledge rock underlying cut-off wall and constructing embankments to extent required for disposal of excavated materials, to S. A. Healy Co., 14 Fisher Lane White Plains. $4,076,600. CD 7/18—ENR 7/25.

Okla., Duncan—City, City Clerk, City Hall, approx. 3,500 tons c.i. pipe, fittings, valves and hydrants, and other installation to Sherman Iron Works, 18 E. Main St., Oklahoma City. $358,100. Est. $375,000. Bids 7/3, awarded 7/16. CD 6/19—ENR 6/27.

S. C., Cayce—Town, W. L. Spigner, mayor, filter plant to D. M. Rickenbaker, Union. $105,250. Bids 6/11, rejected. Plans revised and contract awarded. CD 6/5—ENR 11/1.

Tenn., Tazewell—City, Water Utility Comn., Tazewell, WW sys., to Arnold Constr. Co., Clairfield. $294,000.

Tex., Fort Worth—Texas-Pacific Ry. Co., R. J. Gammie, ch. engr., Texas & Pacific Bldg., water cooling tower at roundhouse, to General Eng. Corp., 301 W. 13 St., approx. $25,000. Awarded 7/23. CD 4/24—ENR 5/3.

Ont., Lucan—Village, W. L. Gibson, WW and distr. sys., to Dick Constr. & Engrg. Co., 138 Dorothy St., Welland. Est. $45,000. C. R. Hagey Engrg. Co., Fort Erie, engr.

Ont., Sudbury — City, H. P. McKeoun, clk., 33 Cedar St., pump. station, to Chisnell & Ganton, 3 Edmund St., approx. $25,700. CD 6/2/44—ENR 6/15/44.

Ont., Toronto — Dpt. Veterans Affairs, Ottawa, watermains, house services, sewers at housing area, Waterloo Twp., to Scott Jackson Constr. Ltd., Box 33, New Toronto, approx. $175,000. Bids 4/20. H. S. Philips & Co., 44 Holme St., Brantford, engrs. CD 4/3—ENR 4/11.

Que., Cap de la Madeleine — Consolidated Paper Corp., Ltd., Sun Life Bldg., Montreal, sheet piling water intake at Wayagamack Beach, to Frank Ross Constr. Ltd., 736 Cote Ste. Catherine Rd., Montreal, approx. $100,000.

Que., Gatineau — Municipality, water sys., to L. T. Martin, Ltd., 56 Spark St., Ottawa, Ont. Est. over $60,000. CD 6/14—ENR 5/23.

Que., Montreal—Municipality, restoring, repairing 36 in. watermains along Greene Ave., to Centriline Corp., 140 Cedar St., New York 6, N. Y. $244,384. (**Correction**—contractor). CD 6/19—ENR 7/4, under CA.

Que., Rouyn—Town, D. D. Desilets, secy., WW. and sewers exten., to D. Lamothe, 210 Ninth St., Noranda. $62,795. M. Labelle, c/o owner, engr.

Que., Sherbrooke — Episcopale Corp. of Sherbrooke, watermains, to Fabi & Sons, Ltd., 150 Belmont St., Montreal. Est. $30,000.

SEWERS, WASTE DISPOSAL

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 6

Pa., Norristown—Boro, sanitary sewers. Over $100,000. H. Rothrock, boro engr.

SEWERS, WASTE DISPOSAL (Bids Asked, Cont'd.)

Pa., Upper Darby—Upper Darby Comrs., Municipal Bldg., sanitary sewers. Over $40,000. CD 1/25/45—ENR 2/1/45.

Wis., West Allis—City, 7525 W. Greenfield Ave., Zone 14, 835 ft. of 8x6 and 318 ft. of 5 diam. monolithic concrete storm sewers. P. Burbach, city engr.

Bids Asked August 8

Pa., New Castle—City Clerk, City Bldg. exten., altering sewage disposal plant. Havens & Emerson, 233 Bway, New York, N. Y. engrs. CD 3/3/44—ENR 3/23/44.

Bids Asked August 9

Calif., Hughson—Hughson Sanitary Dist., 395 Hughson Ave., sanitary sewer, main trunk sewer. Plans deposit $10, $5 returnable. L. C. Macabee, 156 University Ave., Palo Alto, engr.

Bids Asked August 13

Wis., Cedarburg—City, storm sewers, 9040 ft. 10- to 36-in., 270 ft. 36x22 in., 480 ft. 43x27 in., 950 ft. 50x31 in. storm sewers 42 manholes, 31 catch basins. J. Donohue Engrg. Co., 608 N. 8 St., Sheboygen, engr.

Bids Asked August 14

Calif., Long Beach—City, City Hall, installing 4,000 lin. ft. 90 in. rein.-con. storm drain along north side of Willow St., American Ave. to Flood Control Channel and pump station for Storm Drain Pump Dist. 3, Unit 1. Plans deposit $20. G. E. Baker, city engr.

Bids Asked August 15

Miss., Meridian — City, c/o Mayor & Bd. Comrs. approx. 50,910 lin. ft. 6- to 48-in. sewers, 185 manholes and 329 inlets. $75,000. J. C. Watts, city engr.

Bids Asked August 20

Ill., Fairfield—City, City Hall, sewers, sewage treatment plant, WW imprvs. $400,000. Warren & Van Praag, Inc., Standard Office Bldg., Decatur, engrs.

Va., Portsmouth—City, Municipal Bldg., 2,300 ft. 48 in. flexible joint c.i. outfall sewer, Elizabeth River. P. J. Bergeron, city engr. Greeley & Hansen, P. O. Box 177, Portsmouth, engrs. CD 7/30/45—ENR 8/9/45.

Bids Asked September 11

Calif., Laguna Beach—City, City Hall, sanitary sewerage sys., Cliff Drive, etc., outfall and exten. to treatment plant, Sanitary Lateral Sewer Dist. 4, McKnight addn. Over $40,000. Plans deposit $5. J. R. Lester Boyle, city engr. CD 6/26—ENR 7/4.

Bids Asked September 15

Mo., Webster Groves (St. Louis, 19, P. O.)—City, C. H. Appel, mayor, City Hall, 4 E. Lockwood Ave., Webster Groves (St. Louis, 19), storm sewers, auxiliaries, appurtenances, etc. $250,000. Tentative date. Russell & Axon, 6635 Delmar Blvd., University City, St. Louis 5, Mo., engrs. CD 11/28—ENR 12/13.

LOW BIDDERS

California—City, City Hall, July 24, storm sewer, Russell St., west of California St. to Grant St. north on Grant St. to Bancroft Way, from Underground Constr. Co., 75 Ave. and San Leandro Blvd., Oakland, **$105,541**; culverts at 58 intersections, from L. J. Immel, Box 65, Sta. A, **$52,460**. CD 7/15.

Calif., Newport Beach—City, City Hall, July 15, 17,360 lin. ft. 8 and 10 in. vitr. clay sanitary sewers, Ocean Blvd., other streets (Corona Del Mar Sys.), from J. S. Barrett, 1300 Coast Hy., **$92,273**. Est. $105,470. CD 6/25—ENR 7/4.

Calif., Pomona—Cities of Pomona, Claremont and LaVerne, July 23, reconstructing sewage disposal plant, expanding sanitary sewer facilities, reception reservoir, booster line, pump. station, from Wonderly Constr. Co., 2694 Lime Ave., Long Beach, **$425,607**. CD 6/5—ENR 6/13.

Ind., Hanover—Town Bd., July 22, sewage treatment plant, sewerage sys., from Snyder Constr. Co., Chestnut St., Vincennes. **$105,715**. Est. $80,000. CD 7/1—ENR 7/11.

★**N. Y., Brooklyn**—President Brooklyn Boro, Boro Hall, July 12, storm sewer in Ave. L, storm and sanitary sewers Ave. L, E. 104 and E. 99 Sts., and both sides Rockaway Parkway., combined sewer in E. 54 St. from Clarendon Rd. to end of built sewer south of Clarendon Rd., from Millman & Nazzaro, 215 Montague St., Zone 2, **$536,979**. CD 7/3.

N. Y., Idlewild—Comrs. Marine & Aviation, Pier A, foot Battery Pl., North River, New York, Zone 4, July 19, sanitary sewerage sys. Municipal Airport, Contr. 24, from A. Federico & Co., 1955 W. 5 St., Brooklyn, Zone 23. **$446,345**. CD 7/11.

N. Y., Kew Gardens—President Queens Boro, 120-55 Queens Blvd., Zone 15, July 16, sewer, appurtenances E. 153 St., from Woodrock Constr. Co. & F. Evangelista, 40-05 30 Ave., Long Island City, **$90,321**. CD 7/10.

S. C., Mullins—Town, S. Raymond Pridgen, mayor, rejected bids July 11, sanitary sewerage extens. Will readvertise. T. M. Jordan, Myrtle Veach, engr. CD 1/30—ENR 2/21.

Tex., West University Place—City, A. L. Kerbow, mayor, 3800 University St., Houston, July 19, storm sewers and drainage, from Gerald Mora, 312 Sabine St., Houston, **$50,814**. Est. $60,000. CD 7/10.

Wash., Tacoma—City, City Hall, July 15, Unit 1 of South Tacoma trunk sewer from Lawrence St. and Wright Ave. to S. 70 St. and S. Tacoma Way, from Valley Constr. Co., 7708 Rainier Ave., Seattle. **$357,838**. Est. $419,000. CD 7/1—ENR 7/11.

SOON LETS CONTRACT

Calif., Whittier—City, City Hall, sewage disposal plant addns., own forces. **$60,000**. Bids 7/22 rejected.

Nev., Sparks—City, City Hall, drainage sewerage sys., to G. E. Schilling Engrg. & Constr. Co., 1227 D St., **$64,698**. Bids 7/22. CD 7/2—ENR 7/11.

CONTRACTS AWARDED

Mo., Columbia—City, C. G. Caldwell, clk., storm sewerage sys., 48 in. to double 5 x 7 ft. box sewers, to G. L. Tarlton Contracting Co., 5505 Dale Ave., St. Louis, Zone 10. Approx. **$86,000**. Est. $80,000. Bids 7/1. CD 19—ENR 4/18.

★**N. Y., Brooklyn**—President Brooklyn Boro, Boro Hall, storm outlet sewer across Shell Rd., Circumferential Parkway, etc., to A. Paino & Co., Inc., 1835 E. 14 St., Zone 29. **$1,372,606**. CD 7/13—ENR 7/18, under LB.

Tex., Pleasant Grove (near Dallas)—Dallas Co. Water Control & Imprvt. Dist. 3, c/o Jack Simms, 9-22 E. Buckner St., Dallas, sewerage sys. imprvs. lines and distr. plant, to W. G. Cullum & Co., Gr. Natl. Life Bldg., Dallas. **$116,000**. CD 2/12—ENR 2/14.

BRIDGES

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 6

Iowa—State Hy. Comn., Ames, bridge maintenance painting, clean and paint two 148 ft. truss spans, Hy 13, 5 mi. south of Elkader; one 100 ft. on Hy. 52, north limits of Guttenburg, one 175 ft. with two 30 ft. I beam spans, Hy. 52, 5 mi. south of Guttenberg, one 100 ft. with one 40 ft. I beam span, Hy. 52, 6 mi. south of Guttenberg, M-6238, Clayton Co.; two 100 ft. truss spans, Hy. 218, ¾ mi. south of Hills, M-6240, Johnson Co.; three 130 ft. spans, one 40 ft. I-beam, four 50 ft. I beam spans over Wapsipinicon River, Central City, M-6241, Linn Co. F. R. White, ch. engr.

Massachusetts — Comm. of Mass., Boston, timber pile bridge, approaches, Dennis $46,000. Plans deposit $10.

Ont., Fergus—**J. Ransom, supt. Garafraxa** Twp., R. R. 4, Fergus, 80 ft. span beam and slab rein.-con. bridge over Irvine River. About $60,000. W. B. Bettie, R. R. 3, reeve.

Bids Asked August 7

★**New York**—Bureau Contracts & Accounts, Gov. Alfred E. Smith Office Bldg., Albany, bridge and highway reconstruction, Proj. RC-46-108, Allegheny Co., $139,000; grading and structures, Proj. BRP-46-2, Bronx Co., $816,000; FARC-46-8, Erie Co., $200,000; Proj. FARC-46-111, Nassau Co., $740,000; RC-46-112, Steuben Co., $132,000.

N. Y., New York—President Manhattan Boro, Municipal Bldg., Zone 7, Sect. 1, Contr. 60, viaduct foundation and superstructure for elevated public highway, with ramp approaches in West and Marginal Sts. from Barclay to Rector Sts., etc. Plans deposit $50. Extended date CD 7/10—ENR 7/18.

Bids Asked August 13

Maryland—State Roads Comn., Baltimore, bridge over Stoney Creek, Baltimore-Fort Smallwood Rd., Riviere Beach, Anne Arundel Co.

Oklahoma—State Hy. Dpt., Oklahoma City, concrete, steel bridge across North Canadian River, State Hy. 56 south and west of Okemah, Okfuskee Co. $197,000. H. E. Bailey, engr.

Bids Asked August 14

N. Y., Ithaca—City Clerk, City Hall, bridge, abutments across Cayuga Inlet. Plans deposit $10.

Bids Asked August 15

Florida—State Rd. Dpt., Tallahassee, 39 15 ft. bridges, total length 1,820 ft., concrete slab on concrete bents, Rd. 27 between Collier Co. line and Miami, SP Job 8711-109, Dade Co., $190,000; seven 62 ft. and one 44 ft. I-beam spans, concrete decks, resetting nine 53 ft. spans, Rd. 53, Pensacola Bay Bridge, SP Job 4810-103, Escambia Co., $180,000. Plans deposit $5 each. H. P. Coloney, state hy. engr.

★**New Hampshire**—State Hy. Dpt., Concord, 1,198 ft. 13 span deck girder bridge and 0.359 mi. rein-con. approaches, etc. in Hampton, Rockingham Co. $800,000. H. E. Langley, Concord, engr.

Bids Asked August 13

†**Nebraska**—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., river channel construction bridge at site of Harlan County Dam and Reservoir, Harlan Co., Serial No. 23-028-47-1. CD 6/26—ENR 7/4.

Pennsylvania—Dpt. Hys., Harrisburg, two I-beam bridges, and constructing native stone type B or crushed aggregate base with bituminous surfacing 1,450 ft. L.R 08079, Sects. 1 and 3, bridges over Bullard Creek, vicinity of Rome Springs, Rome Twp., Bradford Co.; steel stringer bridge, grading, drainage 1,300 ft. L.R. 01066 (1), over Rock Creek, Cumberland and Mount Joy Twps., Adams Co.; repairing timber decked I-beam bridge, backfilling 112 ft. L.R. 90 (I-B), T.R. 427, over Sugar Creek, north of Wyattville, Venango Co.; 1 rein.-con. bridge, constructing crushed aggregate base with bituminous surface, 43½ ft. over branch of Wissahickon Creek, L. R. 523 (2), T.R. 152, Upper Dublin Twp., Montgomery Co. Plans deposit $2.50 each. T. C. Frame, Harrisburg, ch. engr.

LOW BIDDERS

Arkansas—State Hy. Dpt., Little Rock, rejected bids July 19, bridge, St. Paul, Madison Co.; received no bids July 19, 471 ft. bridge, Bellefonte, Marion Co. Will readvertise. CD 7/10.

Florida—State Hy. Dpt., Tallahassee, July 18, 2 concrete culvert bridges, 6.3 mi. Rds. 2 and 23, Sumter Co., from J. C. Dickerson Constr. Co., Lakeland, **$250,781*****eliminating overhead, Rd. 1, Leon Co., from Barnett Constr. Co., Deland, **$89,531*****bridge, approaches over Lost Creek, Rd. 10, Wakulla Co., from Earnhart Constr. Co., Tallahassee, **$93,108**. CD 7/1—ENR 7/11.

Kentucky—Dpt. Hys., Frankfort, July 19, bridge substructure and grading 1.811 mi. approaches, Edmonson Co., from R. R. Dawson, Bloomfield. **$425,833**. CD 7/2—ENR 7/11.

★**New Jersey**—S. Miller, Jr., comr., State Hy. Dpt., Trenton, July 22, substructure Passaic River Bridge, Clifton and Rutherford, State Hy. Rte. S-3, F. A. P. U-186 (2), Passaic and Bergen Counties, from P. T. Cox Const. Co., Inc., 270 Bway., New York 7, N. Y. **$579,635**. CD 7/1—ENR 7/11.

★**Pennsylvania**—State Hy. Dpt., Harrisburg, rejected bids June 21, 27,643 ft. hy., bridge, railroad crossing, Montgomery Co. L.R. **$890,-786**. Will readvertise. CD 6/25—ENR 6/27, under LB.

Texas—State Hy. Comn., Austin, July 22, 0.189 mi. bridges Madison Co., from R. B. Butler, Bryan. **$96,124**. CD 7/16—ENR 7/25.

Texas—State Hy. Comn., Austin, July 24, 1.34 mi. Medina River bridge, approaches, Bandera Co., from Jack Freelana & Co., Ltd., Eagle Pass. **$113,340**. CD 7/16—ENR 7/25.

CONTRACTS AWARDED

★**Calif., Long Beach**—City, City Hall, Long Beach Blvd. bridge over Los Angeles River, to G. E. Kerns, 5574 Atlantic Ave. **$1,179,000**. CD 7/19—ENR 7/25, under LB.

Calif., San Jose—Santa Clara Co., Court House, culvert, McKee Rd. from White Rd. to Gordon Ave., to **Lew Jones Constr. Co.**, 965 Terra Bella Ave. **$61,258**. Awarded 7/22. R. D. Chandler, co. engr.

Iowa—State Hy. Comn., Ames, substructure for Cedar River Bridge, Rochester. Proj. F-469 (3), Cedar Co., to A. M. Cohron & Son, Des Moines. **$90,158**. Bids 4/2, awarded 7/17. CD 3/20—ENR 3/28.

Iowa—State Hy. Comn., Ames, box culverts and substructures for Des Moines River bridge, east of Stratford on Ia. 175, F-811 (4), Webster Co., to Ben Cole & Son, Ames. **$59,191**. Bids 4/30, awarded 7/17. CD 4/16—ENR 4/18, under Streets and Roads.

Pa., Eddystone — **Baltimore & Ohio R.R.**, A. C. Clarke, ch. engr., B. & O. Bldg., Baltimore, Md., railroad bridge, own forces. **$40,-000**.

Washington—State Hy. Dpt., Olympia, 2 rein.-con. bridges over Tye river, grading, draining, ballasting with selected roadway borrow on 1.149 mi. King Co., to Goetz & Brennan, Seaboard Bldg., 4 and Pike Sts., Seattle, Zone 1. **$216,051**. Bids 7/23. CD 7/10.

British Columbia—Province of British Columbia, Parliament Bldgs., Victoria, concrete piers and abutments in substructure Elk River Bridge, to Highway Constr. Co., Ltd., Victoria. **$47,789**.

B. C., North Vancouver—North Vancouver Dist., approaches for Keith-Lynn Bridge, to Marwell Constr. Co., Ltd., 410 Seymour St., Vancouver. **$42,934**. Awarded 7/12. W. G. Swan, Birks Bldg., Vancouver, engr. CD 2/24/44—ENR 3/9/44, under Streets & Roads.

Ont., Guelph—Wellington Co., Court House, 160 ft. span bridge Rd. 56 over Conestoga River, excav., 155 ft. span over Grand River, to Drury Constr. Co., Ltd., Clarke St., Arthur. **$107,052**. CD 5/27—ENR 5/30.

STREETS AND ROADS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 5

Mass., Boston—City, City Hall Annex, sheet asphalt paving Medford St., Ward 2, from Chelsea St. to Main St. $56,000. Plans deposit $2.

Bids Asked August 6

Iowa—State Hy. Comn., Ames, stabilized base and bituminous surfacing 2.676 mi. Ia. 386, from U. S. 52 southeast of Sageville, northeasterly to Deere Co. plant, southwesterly to U. S. 52 at point approx. 0.8 mi. north of Dubuque, PA-F 921 (1), Dubuque Co.; maintenance resurfacing 1,500 cu. yd. 7.5 mi. Ia. 14, from Wayne Co. line to Chariton, M-5315, Lucas Co. F. R. White, ch. engr.

Massachusetts—Comm. of Mass., Boston, state hy. reconstr. SN-FAP 334 (1), Stockbridge, $65,000; resurfacing section of state hy., Wellesley, $75,000. Plans deposit $10 each.

Mass., Boston—City, City Hall Annex, bituminous concrete paving Boylston Place, Ward 11 from Boylston St., 250 ft. easterly and Pleasant Hill Ave., Ward 17, from Gallivan Blvd. to Morton St. $40,000. Plans deposit $2.

N. C., Hickory—Town, J. D. Rhyne, city mgr., street imprvs. 10,000 sq. yd. bituminous surface treatment, 150,000 sq. yd. retreatment of bituminous surfacing, 900 cu. ft. stone base, 3,000 ft. sidewalks.

Virginia—Dpt. Hys., Richmond, graveling, etc. 1.48 mi. Rte. 3, from 6.28 mi. to 7.77 mi. east of Fredericksburg, Proj. S-608-C, Stafford Co.; waterbound macadam surface treating 0.45 mi. Rte. 58, Proj. S-1006-MI, Mecklenburg Co.; 24 ft. 9 in. rein.-con. paving 4.78 mi. Rte. 29, from 0.41 mi. south of Lawyers Rd., Rte. 683 to 0.07 mi. south of Int. Rte. 24, Proj. F-134-AR2, B2, BR1, F-134 (2), Campbell Co.; bituminous macadamizing 0.95 mi. and bridge over Tinkers Creek, Rte. 11, Proj. S-640-CR, 2, B-2,R, Roanoke and Botetourt Counties; waterbound macadam paving 1.66 mi. and Brunswick Bridge over Potomac River, Rte. 287, Proj. S-1171-D, B-5, Loudoun Co; Plans deposit $5 each; bituminous plant mixed asphalt paving 42.64 mi. Rte. 10 from Smithfield to Hopewell, Proj. S-882-A1 & A2, Isle of Wight, Surry and Prince George Counties.

Ont., St. Catherines—Committee of Works, St. Catherines, approx. 20,000 sq. yd. concrete pavements and 11,000 lin. ft. integral concrete curb, for City. About $45,000.

Bids Asked August 7

Kan., Goodland—City, office R. E. Lundy, city clk., street imprvs. Plans deposit $5. Wilson & Co., 223 N. Santa Fe Ave., Salina, engrs. CD 10/30/45—ENR 12/13/45.

Louisiana—State Dpt. Hys., Baton Rouge, grading, gravel surfacing, concrete paving 0.114 mi. N. O. Rigolets Hy., Rte. 2, SP 6-04-21, Orleans Parish; grading, rein.-con. box culvert, concrete paving 0.026 mi. Curtis-Taylortown Hy., Rte. 10, SP 10-06-18, Bossier Parish; drainage structures, grading, sand clay graveling, 1.373 mi. Richbend Levee Setback Hy., Rte. 30, SP 63-08-11, St. James Parish; shell base course, bituminous surfacing 8.948 mi. Leesville Golden Meadow Hy., Rte. 620, Proj. 64-03-17, FASP S-253 (2), Lafourche Parish; 4.194 mi. Oakdale-Elizabeth Hy., Rte. 22, Proj. 66-04-09, FASP S-309 (2), Allen Parish. Plans deposit $3.50 each. Bids 6/5 rejected. CD 5/23—ENR 5/30.

Maine—State Hy. Comn., Augusta, 5.43 mi. surface treated gravel F.A.P. S-308 (2), T 17-R-5, new Canada, over $40,000; 1.06 mi. F.A.P. S-66 (1), Clifton, over $40,000; 0.64 mi. bituminous gravel F.A.P. S20 (2), Deer Isle, over $40,000; F.A.P. F 148 (8), Rumford, $160,000.

★**New York**—Bureau Contracts & Accounts, Gov. Alfred E. Smith Office Bldg., Albany, highway reconstruction Proj. FA-CBE-46-1, Bronx Co., $527,000; Proj. RC-46-109, Greene Co., $104,000; Proj. RC-46-107, Suffolk Co., $123,000; parkway area reconstruction Proj. RC-46-110, Wyoming Co., $14,000; highway construction Proj. OP-46-1, Nassau and Suffolk Counties, $238,000; Proj. FAVWE 46-1, Queens Co., $1,789,000.

Bids Asked August 8

Miss., Ellisville—City, c/o mayor, 31,000 sq. yds alternate types of surface. $40,000. Plans deposit $5.

Bids Asked August 9

Minnesota—State Hy. Dpt., St. Paul, stabilized gravel base and bituminous wearing course 13.8 mi. between ¼ mi. South of Wells to Keister, S.P. 2204-11 (T.H. 22-39) S 121 (4) and S.P. 2203-09 (T.H. 22-87) S 128 (2); 14.9 mi. between Deer River and Bowstring River, S.P. 3107-09 (T.H. 6-61) S 453 (6). Over $40,000 each. O. L. Kipp, chf. engr.

Minn., Blue Earth—G. G. Buscho, aud., Faribault Co., stabilized gravel base and bituminous surface, 4.5 mi. between 5 mi. east of Winnebago and 2 mi. east of Delavan, 14,421 cu. yd. screening, crushing and loading gravel, 178,477 cu. yd. mi. hauling, 62,935 sq. yd. wearing course. Over $40,000. O. L. Kipp, chf. engr. State Hy. Dpt., St. Paul, engr.

Minn., Crookston—H. L. Welte, aud. Polk Co., grading, gravel surfacing 5.99 mi. between East Grand Forks and 6 mi. north, 73,624 cu. yd. excav., 5,400 cu. yd. crushing, screening and loading gravel and 112,300 cu. yd. mile hauling gravel, S.P. 60-504-02 (SAR 6) Minn. proj. S. 253 (1); 5.29 mi. between one mi. south and one mi. east of Bygland and Fisher, 63,928 cu. yd. excav. and 4,240 cu. yd. traffic bound wearing course in place. Over $40,000. O. L. Kipp, chf. engr. State Hy. Dpt., St. Paul, engr. CD 1/21/44—ENR 2/10/44.

Minn., Windom—E. J. Carbine, aud. Cottonwood Co., grading, graveling 3 mi. between south limits of Storden and 3 mi. south, 42,071 cu. yd. excav., 3,117 cu. yd. traffic bound gravel wearing course in place SP 17-504-01 (SAR 5) Minn. Proj. S 183 (1); 4.99 mi. between SAR 6.6 mi. north and 2.5 mi. east of Storden and the North Co. line, 63,709 cu. yd. excav., 5,243 cu. yd. traffic bound gravel wearing course in place. Over $40,000. O. L. Kipp, chf. engr. State Hy. Dpt., St. Paul, engr. CD 7/17—ENR 7/25.

Bids Asked August 10

Tex., Monahans—Ward Co., Courthouse Bldg., asphalt street paving. $40,000. No bids received 6/29. J. Silliman, Crane, engr. CD 6/20.

Bids Asked August 12

Minn., Baudette—F. G. Haag, aud., Lake of the Woods Co., grading 4.74 mi. between C. A. R. 37 Trunk Hy. 11 in Baudette, 77,419 cu. yd. excav. 6,322 cu. yd. screening and loading gravel and 14,773 cu. yd. mile gravel haul. Alternate bids as part of the proposal for one concrete box culvert 39 cu. yd. concrete or 4x4 double timber box culvert. Over $40,000. Plans deposit $1.10. O. L. Kipp, chf. engr. State Hy. Dpt., St. Paul, engr. CD 3/15/45—ENR 4/5/45.

Bids Asked August 13

Indiana—State Hy. Comn., J. H. Lauer, chn., Indianapolis, bituminous resurfacing 6.95 mi. Rds. 2, 4 and 35, 19.32 mi. Rd. 6, both LaPorte Hy. Dist., LaPorte Co.; 14.44 mi. Rd. 50, Vincennes Hy. Dist., Davies and Martin Counties; 3.41 mi. Rd. 61, Vincennes Hy. Dist., Pike Co.; 0.85 mi. Rd. 26, Crawfordsville Hy. Dist., Tippecanoe Co.; bituminous widening and resurfacing 10.04 mi. Rd. 28, Greenfield Hy. Dist., Madison Co. C. E. Vogelsang, ch. engr.

Bids Asked August 15

California—State Div. Hys., Los Angeles, road mix surfacing 15.4 mi. between 1.3 mi. north of Imperial Co. line and 0.5 mi. south of San Bernardino Co. line, Riverside Co. G. T. McCoy, hy. engr.

Florida—State Rd. Dpt., Tallahassee, regrading, stabilizing, bituminous retread surfacing 1.432 mi. Rd. 8-A between Highlands Polk Co. line and northwest, FAP J-175 (12), Polk Co., $48,000. Plans deposit $5. H. P. Coloney, state hy. engr.

Miss., Meridian—City, c/o Mayor & Bd. Comrs., concrete curbing guttering, and sidewalks paving 160,000 sq. yd. various streets, $200,000 J. E. Watts, City Hall, engr.

Bids Asked August 16

Pennsylvania—Dpt. Hys., Harrisburg, rein.-con. on plain concrete base and relaid brick paving 8.031 ft. L.R. 1011, Spur, Sects. 3 and 4, L. F. 525, Sec. 4, T. Rts. 271 and U. S. 219, L. R. 52, Sec. 20, T. R. 53, Johnstown Cambria Co.; bituminous on plain concrete base, 4.089 ft. L. R. 22043 (1), Herr St. from Cameron St. to intersection of Rte. 1, Spur near 20 St., Harrisburg, Susquehanna Twp., Dauphin Co.; rein.-con. paving, rein.-con. structure, bituminous on crushed aggregate base surfacing, miscellaneous drainage, repairing bridge 6,306 ft. L. R. 61, Sec. R-1, L. R. 59 (R-2) T. R. 28 and 219, Brockway Boro, Jefferson Co.; rein.-con. wearing surface for bridge floor, 1,349 ft. on each side of trolley area, L. R. 11 (12), on Market St. Bridge, Wilkes Barre City and Kingston Boro, Luzerne Co.; rein.-con. widening, extending 2 rein.-con. bridges 9,921 ft. L. R. 203 (R-1), T. R. 66, from Manorville Boro south toward Ford City Boro, Manor Twp. and Manorville Boro, Armstrong Co. Plans deposit $2.50 each T. C. Frame, Harrisburg, ch. engr.

Bids Asked August 21

California—State Div. Hys., Sacramento, grading, plant mix surfacing 4.6 mi. between Schilling and Shasta, Shasta Co. G. T. McCoy, state hy. engr.

LOW BIDDERS

†**California**—Pub. Rds. Admin., 720 Phelan Bldg., San Francisco, July 23, 7.04 mi. Proj. Calif-F. H. 96-B, Mosquito Ridge, Tahoe National Forest, Placer Co., from W. C. Thompson, 2801 3 St., San Francisco. $407,360. CD 7/9.

California—State Div. Hys., Sacramento, July 24, imprv. 9.9 mi. west of Westmore, Plumas Co., from Fredrickson & Watson Constr. Co., 873 81 Ave., Oakland. $367,267. CD 6/28—ENR 7/4.

Florida—State Rd. Dpt., Tallahassee, July 18, widening, surfacing 3.7 mi. between St. Marks and Wakulla, Wakulla Co., from Marion Constr. Co., Ocala. $65,067. CD 7/1—ENR 7/11.

★**Indiana**—State Hy. Comn., Indianapolis, July 23, imprv. 2.785 mi. Monroe Co., from Ralph Rogers & Co., S. Adams St., Bloomington, $268,390 est. $281,721***3.998 mi. Green Co., from R. P. Olinger, Huntingburg, $383,579 est. $410,137***1.728 mi. Wayne Co., from DeBolt Constr. Co., Defiance, O., $439,774 est. $520,339. CD 7/10—ENR 7/18.

Kentucky—Dpt. Hys., Frankfort, July 19, imprv. 60.7 mi. Bourbon and Jessamine Counties, from Carey Constr. Co., Lexington, $49,902, 15.34 mi. Jefferson Co., from Breslin Constr. Co., 1801 S. Brook St., Louisville, $68,055. CD 7/2—ENR 7/11.

Louisiana—State Dpt. Hys., Baton Rouge, July 17, imprv. 24.77 mi. Cathoula and Bienville Parishes, from Horton Pollard, Bossier City, $63,496 *** 22.23 mi. Tangipahoa and Washington Parishes, from W. H. Patterson & Co., Baton Rouge, $40,269 *** 2 mi. SP 91-09-05, 811-08-01, 2.5 mi. SP 831-02-02, Caldwell and Lincoln Parishes and 1.71 mi. East Baton Rouge, East Feliciana and Natchitoches Parishes, from R. M. Lilly, Fidelity Bank Bldg., $53,827 and $45,202 respectively. CD 7/3—ENR 7/11.

Md., Baltimore—Bd. Awards, City Hall, July 18, concrete paving streets Contrs. 821 and 822, from Arundel Constr. Co., 910 Trinity St., Baltimore, $74,775 and $73,940 respectively. CD 7/12.

★**Maine**—State Hy. Comm., Augusta, July 17, imprv. 4.568 mi. Auburn and Lewiston, from W. H. Hinman, Inc., North Anson, $462,744***2.807 mi. Bangor, from Bridge Constr. Corp., Augusta, $201,794***1.13 mi. Brewer, from Bridge Constr. Corp., Augusta, $154,992***2.178 mi. Norway and Waterford, from W. E. Rogers, Gardiner, $48,325***0.664 mi. Both from W. H. Hinman, North Anson, $336,086. CD 7/9.

Massachusetts—Comm. of Mass., Boston, July 23, imprv. 1.415 ft. Methuen, from H. N. Worthington Co., 159 Newport Ave., Quincy. $41,359. CD 7/17.

Minnesota—State Hy. Dpt. St. Paul, received no bids July 12, grading, concrete box culverts, 4.7 mi. between ½ mi. north of Linden Grove and Junction Trunk Hy. 53, S. P. 6931-02 (Trunk Hy. 73-163) S 302 (4). Over $40,000. CD 6/27—ENR 7/4.

Minn., Grand Rapids—Itasca Co., R. J. Whaling, aud., rejected bids July 9, grading and bridge between Trunk Hy. 3 and TH 6, SP 31-502-02 (SAR 11) Minn. Proj. S 317 (1). LB $71,412. CD 6/19—ENR 6/27.

★**Mississippi** — State Hy. Comn., Jackson, July 23, imprv., 2.588 mi. Harrison Co., from Stevens Bros., The Miller-Hutchins Co., 730 Gravier St., New Orleans, La., $514,016 est. $150,000***9.607 mi. Neshoba Co., from Cook Constr. Co., Standard Life Bldg., Jackson, $336,114 est. $240,000. Rejected bids July 23, imprv. 3.435 mi. Tallahatchie Co., $480,000; 0.568 mi. Monroe Co. $125,000; 3.063 mi. Scott and Leake Counties $80,000. Received no bids July 23, imprv. 8.871 mi. Yazoo Co., $270,000; 0.682 mi. Scott Co. $90,000; 0.596 mi. Washington Co., $125,000; 10.384 mi. Issaquena and Sharky Counties, $300,000; 5.369 mi. Sunflower Co., $225,000. CD 7/15.

★**New Jersey**—S. Miller, Jr., comr. State Hy. Dpt., Trenton, July 22, imprv. 1.432 mi. Rte. 6, Sec. 22A, Passaic Co., from Geo. M. Brewster & Son, Inc., 275 W. Fort Lee Rd., Bogota, $886,000. CD 7/1—ENR 7/11.

New Hampshire—State Hy. Dpt., Concord, rejected bids July 11, imprv. 3.569 mi. Coos Co., LB. $202,876. CD 7/16—ENR 7/18.

★**New York**—Bureau Contracts & Accounts, Albany, July 24, improving 12.86 mi. Delhi-Andes S. H. 982, Delaware Co., from John Arborio, Inc., Poughkeepsie, $1,498,141 est. $1,420,000***0.62 mi. Olean-Allegany S. H. 601, Cattaraugus Co., from John F. Kendall Co., Jacksonville Bldg., Buffalo, $42,722 est. $45,000***5.24 mi. Olean-Hinsdale Rd., Pt. 1, S. H. 5066, Olean-Hinsdale-Cuba Rd. S. H. 5133, and Hinsdale-Franklinville Rd. Pt. 1, S. H. 5534, Cattaraugus Co., from Bero Engr. & Constr. Co., McKinley Bldg., Buffalo, $1,215,989 est. $1,216,000***0.57 mi. Woodville-Bristol Springs S. H. 8156, Ontario Co., from Potter-DeWitt Corp., Pavilion, $207,897 est. $237,000***3.96 mi. Trenton-Remsen S. H. 144, Remsen-Boonville Town Line S. H. 5346, Oneida Co., from Circle Constr. Corp., 175 Main St., White Plains, $254,593 est. $300,000. Received no bids July 24, imprv. 1.93 mi. Greene Co. $326,000, 3.43 mi. road Oneida Co. $335,000, Chenango and Otsego Counties $167,000, Chenango and Otsego Counties $548,000, 0.75 mi. Essex Co. $77,000.

North Carolina—State Hy. & P. Wks. Comn., Raleigh, rejected bids June 25, imprv. 3.5 mi. Iredell Co. LB. $77,025. Will readvertise. CD 7/1—ENR 7/11, under LB.

Ore., Seaside—City, City Hall, street imprvs., from Grimstad & Vanderveldt, Astoria, $49,605. CD 1/30—ENR 2/21.

★**Pennsylvania**—Commonwealth of Pennsylvania, Dpt. Hys., Harrisburg, rejected bids June 21, imprv. 28.809 ft. Berks Co., L. B. $973,876; 3,246 ft., Delaware Co., L. B. $315,542; 1,200 ft. hy. and bridge, Tioga Co., L. B. $47,476. Will readvertise. CD 6/25—ENR 6/27.

†**Pennsylvania**—U. S. Eng., 925 New Federal Bldg., Pittsburgh, rejected bids June 19, paving parking area and surfacing access road Loyalhanna Dam, Westmoreland Co., Inv. 36-058-46-14. CD 5/24—ENR 5/30.

★**Texas**—State Hy. Comn., Austin, July 24, from Ernest Loyd, P. O. Box 1130, Fort Worth, imprv. 11.81 mi. Jack Co., $152,531; 23.974 mi. Yoakum and Gaines Counties, $167 833***from Harry E. Cagle, 4425 DuPont St., Houston, 9.94 mi. Harris Co., $155,477***from A. L. Bucy, 804 Ave. L, Brownwood, 7.737 mi. Wilbarger Co., $50,900;***from Campbell & Kay, P. O. Box 836, Tyler, 13.714 mi. Nacogdoches Co. $173,798***from L. P. Reed, Meridian, 11.473 mi. Upshur Co., $298 082***from M. B. Killian & Co., P. O. Box 1981, San Antonio, 8.141 mi. Matagorda Co., $99,869; 13.808 mi. Dimmit Co., $112,334; 6.805 mi. La Salle Co., $73,518***from Howard Bros., Madisonville, 5.854 mi. Polk Co., $149,947***from Stuckey Constr. Co., P. O. Box 1645 Wichita Falls,

STREETS AND ROADS (Low Bidders, Cont'd.)

0.734 mi. Childress Co., **$58,739*****from Bell & Braden, Herring Hotel Bldg., Amarillo, 15,-262 mi. Lipscomb and Hemphill Counties, **$296,264*****from H. L. Butler & Son & Paul W. Carlisle, Center, 8.992 mi. Anderson Co., **$50,046*****from Thomas & Ratliff, Rogers, 9.003 mi. Mitchell Co., **$85,687*****from M.-J. Constr. Co., P. O. Box 1111, Beeville, 7.545 mi. Nueces Co., **$261,014*****from Texas Bitulithic Co., P. O. Box 5297, Dallas, 28.236 mi. Wilbarger, Wichita and Archer Counties, **$215,864*****from Wallace & Bowden, 5513 E. Grand Ave., Dallas, 3.518 mi. Eastland Co., **$248,635*****from H. E. Williams P. O. Box 235, Waco, 23.388 mi. Williamson, Milam and Lee Counties, **$228,295*****from D. H. Buchanan Constr. Co., 1318 N. 5 St., Temple, 8.507 mi. Robertston Co., **$77,374*****from Ted Amity, Sweetwater, 27.432 mi. Terry Co., **$171,952***** from John T. Leslie, Bailey, 2.98 mi. Hunt Co., **$191,070.** Received no bids July 24, imprv. 12.66 mi. Delta Co. CD 7/16—ENR 7/25.

★**Texas**—State Hy. Comn., Austin, July 23, from Holland Page, P. O. Box 1181, Austin, imprv. 6.477 mi. Travis Co. **$278,240;** 11.356 mi. Medina Co. **$45,495;** 8.075 mi. Garza Co. **$118,-160*****from Brown & Root, Inc., P. O. Box 1139, Austin, 2.787 and 4.99 mi. Liberty Co. **$86,247*****from Hugh McMillan P. O. Box 1227 El Paso, 11.024 mi. Haskell Co. **$93,064*****from Schwope Bros. 1014 West Laurel St., San Antonio, 10.680 mi. Kendall Co. **$88,868***** from E. W. Hable & Co., Coricana, 12.248 mi. Angelina Co., **$336,608***** from E. B. Darby Co., Pharr, 7.26 mi. Cameron and Hidalgo Counties **$77,720*****from Eugene Field, Calvert, 10.461 mi. Grimes Co., **$80,727*****from Brazas Valley Constr. Co., 258 Majestic Bldg., Fort Worth, 13.428 mi. McMillen Co., **$95,104***** from John T. Leslie, Belle, 3.82 mi. Wichita Co., **$46,045*****from Dean Skinner, Dallas Hy., Austin 7.891 mi. Bell Co., **$57,031.** Received no bids July 23, imprv. 8.827 mi. Wichita Co.; 3.864 mi. Delta Co. CD 7/16.

Tex., West University Place—City, A. L. Kerbow, mayor, 3800 University St., Houston, July 19, 72,951 sq. yd. 7-to 9-in. concrete street paving, from L. Vernon Miller & Son, 1st Natl. Bank Bldg., Houston, **$253,307.** Est. $200,000. CD 7/10—ENR 7/18.

Vermont—State Hy. Dpt., Montpelier, July 19, imprv. 1.434 mi. Topsham, from B. A. Simeone, Inc., Medford, Mass., **$175,135;** 1.233 mi. Westmore, from E. L. Bell, Pittsburg, N. H., **$50,821.** CD 7/10.

★**Virginia**—State Hy. Dpt. Richmond, July 23, imprv. 1.72 mi. Henry Co., from **Kiker & Yount,** Reidsville, N. C., **$185,799***** 2.23 mi. Wise Co., from Albert Bros., Contractors, Salem, **$316,134***** 2.55 mi. Russell Co., from B. G. Young & Sons, Johnson City, Tenn., **$336,970*****0.55 mi. Montgomery and Pulaski Counties, from M. S. Hudgins, Roanoke, Va., **$52,182*****3.45 mi. Loudoun Co., from Hodgin & Gilliam, Upperville, **$235,448.** Received no bids July 23, imprv. 1.53 mi. Fairfax Co., 0.91 mi. Prince William Co. will readvertise. CD 7/11—ENR 7/18.

†**Virginia**—Pub. Roads Admin., 1440 Columbia Pike, Arlington, July 25, Blue Ridge Parkway, Proj. LVW 5, Carroll and Grayson Counties, from American Asphalt Products Co., 1 and O Sts. S. E., Wash. D. C., **$358,515.** CD 7/8—ENR 7/11.

Virginia—State Dpt. Hys., Richmond, received no bids July 9, furnishing 224,700 gal. bituminous material Group 1 and 160,100 gal. Group 3, furnishing, application of covering Bristol Dist. Sched. 4; rejected bids July 9 furnishing 117,900 gal. Group 1, and 157,300 gal. Group 2, Bristol Dist. Sched. 6. Will readvertise.

★†**Washington**—Pub. Rds. Admin., Bedell Bldg., Portland, Ore., July 23, 6 mi. fine grading subgrade, shoulders, and 6.7 mi. reconditioning used roadbed, St. Helens Hy., Columbia Nat. Forest, Cowlitz and Skamamia Counties, from J. D. Shotwell, Puget Sound Bank Bldg., Tacoma, **$169,130.** Rejected bids July 23, imprv. 3.8 mi. Chelan Co. L. B. **$691,142.** CD 7/11.

†**Washington**—Public Roads Admin., Bedell Bldg., Portland, Ore., July 16, imprv. 3.8 mi. Glacier Canyon Rd., Mt. Baker Natl. Forest, from Goetz & Brennan, Seaboard Bldg., Seattle, 1, **$156,509.** CD 7/9.

CONTRACTS AWARDED

★**Arkansas**—State Hy. Dpt., Little Rock, to A. C. Campbell, First National Bank Bldg., Shreveport, La., imprv. 72.9 mi. Hempstead Co., **$71,236;** 15.4 mi. Crittenden Co., **$400,695;** 10.496 mi. Monroe Co., **$260,808*****to Fell Vaughan, 411 W. 19 St., N. Little Rock, 13.9 mi. Boone Co., **$209,310*****to Missouri Petroleum Products Co., Clayton, Mo., 91.8 mi. Washington Co., **$84,900*****to D. B. Hill & B. M. Hogan, 115 N. Spring St., Little Rock, 12 mi. Independence Co., **$325,151*****to W. R. Aldrich & Co., Kulwrah Universal Gardens, Baton Rouge, La., 44.9 mi. Arkansas, Ashley and Jefferson Counties, **$41,420*****to Forsgren Bros., 500 S. 5 St., Ft. Smith, 71 mi. Logan Co., **$68,680*****to McGeorge Constr. Co., foot of Nebraska Ave., Pine Bluff, 6.9 mi. Jackson Co., **$144,323*****to Reynolds & Williams, Tyler, Tex., grading Ashley Co., **$145,886;** Grand total $1,752,209. Rejected bids July 19, 10 mi. Franklin Co. will readvertise. CD 7/10.

†**California**—Pub. Rds. Admin., 720 Phelan Bldg., San Francisco, grading 4.6 mi. Rte. F. D. 2N13, Tule Creek-Butter Creek, Trinity Co., to Harms Bros. & M. W. Brown, Rte. 4, Box 2220, Sacramento. **$109,658.** C. C. Morris, div. engr.

Calif., Santa Monica—City, City Hall, asphaltic concrete paving 0.527 mi. Santa Monica Blvd., 26 St. to Centinella Blvd., to Oswald Bros., 366 E. 58 St., Los Angeles. **$42,346. Bids 7/17.**

Idaho, Boise City—City, City Hall, oiling 51,930 yd. streets, to Morrison-Knudsen Co., Inc., 319 Broadway. **$40,423.** J. F. McBirney, city engr. CD 4/20/45—ENR 5/3/45.

Idaho, Pocatello—City, City Hall, grading, surfacing, asphaltic concrete paving gutters, curbs, storm drainage, to Barnhart & Wheelor Constr. Co., Pocatello. **$456,172.** Est. $475,757. Bids 7/13. R. C. Lowrie, city engr.

★**Illinois**—State Div. Hys., Springfield, imprv. S.B.I. Rte. 3, Section 17F, Rock Island Co., to Bethlehem Steel Co., Wrigley Bldg., Chicago. **$626,789.** Bids 6/7, awarded 7/3. CD 6/12—ENR 6/20, under LB.

Ill., Peoria—Peoria Co., imprv. township roads, to C. L. Swords Contracting Co., 107 S. Jefferson St., **$129,488.** Bids 7/3, awarded approx. 7/6. CD 6/27.

Ill., Taylorville — Christian Co., c/o Bd. Supervisors, Court House, to L. J. Marsch, Morrisonville, furnishing 210,000 gal. E-2 ,E03 or E-4 road oil, 40,000 gal. SC-4n f.o.b. cars, at 5.5 c. per gal.; 426,000 gal. E-2, E-3 or E-4 road oil on road, 8.23 c. per gal,*** to Debrun Road Imprvt. Co. Assumption, 745,000 gal. E-2, E-3 or E-4 road oil on road 8.2 c. per gal.; 10,000 gal. SC-4n asphalt on road 10.2 c. per gal.; 520 tons A-1 seal coat aggregate on road **$3.50** per ton***to McGrath Sand & Gravel Co., Lincoln, 2,100 tons, A-1 seal coat aggregate, f.o.b. cars, **$1.68** per ton. CD 6/27.

Kan., Fredonia—City, G. F. Wampler, clk., surfacing and resurfacing streets to G. Myers, Eldorado, **$79,462.** Bids 7/10. Burgwin & Geiger, Fredonia, engrs.

Minnesota—State Hy. Dpt., St. Paul, imprv. 6.2 mi. between Floodwood and 6 mi. south, and at 3 mi. north of Floodwood, S.P. 6927-03 (Trunk Hy. 73-163), S.P. 6927-04 (TH 73-163) and S.P. 6928-04 (TH 73-163), FAS 207 (2) and FAS 206 (2), to Barnard-Curtiss Co., 808 Phoenix Bldg., Minneapolis. **$179,047;** 11.2 mi. between Junction Trunk Hy. 29 and Hewitt, S.P. 5604-02 (TH 3-183) and S.P. 7701-06 (TH 3-183) and S.P. 7701-12 (TH 3-183), S 501 (7) to J. Dieseth Co., Box 97, Fergus Falls, **$213,451.** CD 6/13—ENR 6/20.

Minn., Foley—M. G. Winton, aud., Benton Co., stabilized base and bituminous surface 7.4 mi. between SAR 4 (Pepple Creek) and SAR 1, east of Sauk Rapids, SP 05-503-02 (SAR 3) Minn. Proj. S 86 (1), to C. L. Nelson & Co., Brainerd, and R. C. Jones, Deerwood, **$46,236.** Bids 7/12. CD 6/27—ENR 7/4.

Minn., Warren—Marshall Co., L. G. Johnson, aud., received no bids July 15, grading and graveling 6.5 mi. between Alma Creamery and 1.5 mi. east of Middle River State Park, SP 45-509-02 (SAR 4), Minn. proj. S 667 (3). $40,000. CD 6/27—ENR 7/4.

★**Mississippi**—State Hy. Comn., Jackson, imprv. 8.112 mi. Oktibbeha Co., to King Contracting Co., Taylorsville, **$214,242** est. $190,000***4.894 mi. Panola Co., to Chandler Bros., Inc., Virgilina, Va., **$171,336** est. $125,-000***1.713 mi. Benton Co., to Bernam Admans, Winchester, Ky. **$90,350** est. $100,000. Grand total $575,928. Bids 7/23.

Miss., Greenwood — City, A. D. Safford, mayor, clay graveling 9 mi. various streets, to Warren Bros. Constr. Co., 2530 Md. Ave. S., Birmingham Ala. **$130,457.** Est. $140,000. Bids 7/19.

★**New York** — H. A. Cohen, dir. Bureau Contrs. & Accounts, Albany, Zone 1, imprv. Bronx River Parkway southerly exten.; grading ¼ mi. parkway, grade separation structures at E. 172 and E. 174 Sts., Proj. BRP-46-4, to Rusciano & Son Corp., 738 E. 212 St., New York 67, N. Y., **$638 875.** CD 7/12—ENR 7/18.

†**Mo., Kansas City**—U. S. Eng., Davidson Bldg., general contract, paving 14,000 sq. yd. quartermaster depot, to J. A. Tobin Constr. Co., 3700 Rainbow St. **$44,740.**

★**Pa., Phila.**—Dpt. P. Wks., City Hall Annex, to Eastern Asphalt Co., Packard Bldg., imprv. Leigh Ave., Avondale St., 22 St. from Diamond to York Sts. **$70,685;** Florence Ave. and 55 St. **$60,753*****to General Asphalt & Paving Co., Glenview and Rising Sun Ave., Rising Sun Ave. **$58,578;** 5 St. **$88,790;** Farragut St., Girard Ave., etc. **$81,924*****to Union Paving Co., Broad and Stiles Sts. Girard Ave. **$323,458;** Schedule D asphalt resurfacing **$184,-248*****to Mack Paving & Constr. Co., Luzerne and C. Sts., Leverington and Fairmont Aves., **$97,312*****to State Paving & Constr. Co., 1924 Arch St., Erie and Glenwood Aves and alleys and drives, **$64,162.** Grand total **$1,030,-020.** Awarded 7/21. CD 1/31—ENR 2/21.

South Carolina—State Hy. Dpt., Columbia, rejected bids July 16, imprving roads in Abbeville, Aiken-Lexington, Anderson, Beaufort-Jasper, Anderson-Oconee-Pickens, Marion, Orangeburg, Sumter and Union Counties. CD 7/23—ENR 8/1.

South Carolina—State Hy. Dpt., Columbia, asphaltic concrete type bituminous retreating 3.44 mi. Charleston Co., to Dickerson Co., Monroe, N. C., **$43,935.** CD 7/23—ENR 7/11.

Tex., Brady—City, 25 blocks asphalt street paving and concrete curbing, guttering to Phillips Paving Co., San Angelo, **$72,600.** W. C Leach, Coleman, engr.

Tex., Houston—Tex-Estate Corp. 201 Main St., constr. and paving streets in Industrial Center. Owner builds. **$60,000.**

†**Utah**—Pub. Rds. Admin., Federal Bldg., Ogden, bituminous surfacing 5.795 mi. Flaglake National Forest, Sever Co., to Reynolds Constr. Co., Springville, **$166,244.** Est. $145,-874. Bids 6/27. CD 6/24.

Utah, Salt Lake City—City, City & Co. Bldg., concrete sidewalks, sidewalk Exten. 237, to Griffith, Cornell & Carmen, 876 First Ave., **$49,000.** Bids 7/12. W. D. Beers, city engr.

Wis., Milwaukee—City, paving N. 76 St., to White Consolidated, Inc., 2543 W. Greves St., Zone 3, $57,503; E. Newberry Blvd., to Badger Const. Co., 229 E. Wisconsin Ave., Zone 2 **$67,068.** Bids 7/19, awarded 7/22. CD 7/17.

★**Alberta**—Imperial Oil, Ltd. & other oil companies, Calgary, imprv. 70 mi. road from Entrance, to New West Constr. Co., Ltd., 10480-113 St., Edmonton. Approx. $1,000,000. Walker Turner, c/o owners, engr.

Man., Winnipeg—Dpt. P. Wks., Winnipeg, grading, stabilizing, bituminous surfacing provincial trunk hy., to Commonwealth Constr. Co., Ltd., Royal Bank Bldg. **$230,128.**

★**Quebec**—Dpt. Rds., Quebec City, section new Road 54 B, National Park-Quebec-Laterriere Hy., to Cartier Const. Co. Ltd., Dominican Square Bldg., Montreal, about $2,000,-000***section same road, to Chaplain Const. Co., Ltd., 6301 Park Ave., Montreal, about **$2,000,000*****concrete bituminous paving 21 mi. Hy. 6 from Cap Chat to St. Joachim de Tourelles in Gaspe North, and 6 mi. Hy. 1 between Riviere du Loup and St. Antouin, to Lorenzo Boucher, St. Georges de Beauce, about **$200,000** and **$60,000** respectively***4½ mi. Hy. 52, St. Johns, to Philippe Baillargeon, 264 Champlain St., St. Johns, about **$65,000***** Hy. 6, Metis to Ste. Felicite, to John Murdock, 267 St. Paul St., Quebec City, about **$1,000,000*****grading, graveling 5.75 mi. Hy. 8, St. Augustine de Deux Montagnes, to H. J. O'Connell, Ltd., Canada Cement Bldg., Montreal, about **$375,000.** Grand total $5,700,000. E. Gohier, c/o owner, engr.

★**Quebec**—Province of Quebec, Quebec City, 53 mi. hy. through Laurentian Natl. Park, Chicoutimi, and 50 mi. road between Stoneham and Lake Jacques Cartier, Stoneham, to Cartier Constr. Co. Ltd., Dominion Sq. Bldg., Montreal. Est. over **$350,000** and $200,-**000** respectively.

Quebec—Dpt. Rds., Quebec City, grading, graveling approx. 7 mi. road in Patton Twp., Brome Co., to Kennedy Constr. Co. Ltd., 485 McGill St., Montreal, about **$325,000.** E. Gohier, c/o owner engr.

EARTHWORK, WATERWAYS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 6

†**Pennsylvania**—U. S. Eng., 925 New Federal Bldg., Pittsburgh, snagging and clearing Dunlap Creek and Saltlick Run, Fairbank, Inv. 36-058-47-15.

†**Pennsylvania**—U. S. Eng., 925 New Federal Bldg., Pittsburgh, clearing, straightening French Creek at Cochranton, Crawford Co. Inv. Inv. 36-058-47-16.

Bids Asked August 7

†**Conn., New Haven**—U. S. Eng., 319 Industrial Bldg., Providence 2, R. I., maintenance dredging of channel widening at New Haven Harbor, Serial 37-018-47-11. CD 6/24—ENR 7/11.

Ont., Port Arthur—Dpt. P. Wks., Ottawa, repairing breakwater. About $200,000. Plans deposit $25. R. Blais, engr., c/o owner, engr. CD 4/5—ENR 4/18.

P.E.I., Tignish Harbour—Dpt. P. Wks., Ottawa, Ont., repairing breakwater, $45,000 Plans deposit $20. R. Blais, c/o owner, engr.

Que., Sorel—Dpt. P. Wks., Ottawa, Ont., harbor repairs, imprva., concrete traffic strips, drainage sys., etc. $61,000. Plans deposit $20. Robert Blais, c/o owner, engr. CD 4/5—ENR 4/18.

Bids Asked August 8

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, Zone 9. 885,000 cu. yd. uncompacted earthwork, Atchafalaya River Levees, New Orleans Dist., Inv. 16-047-47-19.

Bids Asked August 9

†**Louisiana and Mississippi**—U. S. Eng., foot of Prytania St., New Orleans, La., constructing and/or sinking approx. 10,000 sq. yd. framed willow mattress revetment, Mississippi River between Natchez, Miss. and New Orleans, La.

†**Tex., Dallas**—U. S. Eng., Santa Fe Bldg., Galveston, levee repairs, for Dallas Co. Imprvt. Dist. 6. $35,000.

EARTHWORK, WATERWAYS (Bids Asked, Cont'd.)

Bids Asked August 12

†**Arkansas**—U. S. Eng. P.O. Box 60, Vicksburg, Miss., $13,000 cu. yd. earthwork, south bank of Arkansas River, Inv. 22-053-47-27.

†**Washington**—Bureau Reclamation, Dpt. Interior, 7¼ N. 2 St., Yakima, earthwork, pipelines, structures, lateral distr. sys. Pump Area 15, Roza Div., Yakima Proj., approx. 6 mi. north of Prosser, Spec. 1436. W. R. Young ch. engr.

Ont., Sault Ste. Marie — Pub. Utilities Comm., W. M. Cornell, mgr., Sault Ste. Marie, 630 ft. tunnel, 4 ft. diam. under tailbraces of Great Lakes Power Co. Ltd., with 2 shafts 5 ft. in diam. and auxiliary works in connection therewith. About $60,000. Proctor, Redfern & Laughlin, 36 Toronto St., Toronto, engrs.

Bids Asked August 13

†**Arkansas**—U. S. Eng., P.O. Box 97, Memphis, Tenn., 140,000 cu. yd. earthwork in slide repair and berm construction, White River Levee Dist. (White River Backwater Levee), Lambrook to Snow Lake, Serial 40-041-47-3.

†**Mississippi**—U. S. Eng., P.O. Box 97, Memphis 1, Tenn., restoration and berm, involving placing approx. 35,000 cu. yd. earthwork in Upper Yazoo Levee Dist., Levee Item L-329 R, Rena Lara, approx. Levee Stations 85/24-85/28, 86/37-86/45, and 93/42-93/45, Inv. Serial No. 40-04-47-7.

Bids Asked August 15

†**Texas**—U. S. Eng., 606 Santa Fe Bldg., Galveston, dredging Gulf Intracoastal Waterway between Three Islands and Red Fish Bay, Cameron and Willacy Counties, Serial 41-243-47-10.

†**Washington**—Bureau Reclamation, Denver, Colo., traveling cranes for Grand Coulee Pumping Plant, Columbia Basin Proj., Spec. 1417. Extended date. CD 7/1—ENR 7/11.

Bids Asked August 17

Tex., Port Arthur—Jefferson Co. Drainage Dist. 7, C. Comfort, P. O. Box 486, Port Arthur, ditch excavation along 3 St. ditch in Lakeview-DelMar addn. $922,500; ditch excavation on Pear Ridge Main 1, $22,500. Smith-Norris Eng. Co., Harris Bldg., engr. CD 12/13/45—ENR 12/27/45.

Bids Asked August 20

†**Conn., Hartford**—U. S. Eng., 819 Industrial Trust Bldg., Providence, 2, R. I., Bushnell Park Pump Station equipment, Serial 37-018-47-3. CD 6/18—ENR 6/20.

Bids Asked August 21

★†**California**—Bureau Reclamation, Antioch, earthwork, concrete lining, structures, Station L plus 185-00 to Station L plus 774-00, Delta-Mendota Canal, Delta Div., near Tracy, Central Valley Proj., Spec. 1435.

Bids Asked August 22

†**Mississippi**—U. S. Post Office & Court House, Vicksburg, portion of Grenada Dam embankment, spillway, and appurtenant work on Yalobusha River, Grenada Co. Extended date. CD 7/12—ENR 7/18.

Bids Asked August 26

†**Idaho**—Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Emmett, one 3-motor, 15 ton traveling crane, 1 lifting beam for C Line Canal Pumping Plant, Boise Proj., Payette Div., Spec. 1442.

†**Montana** — Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Fallon, steel for Fallon and Fallon-Relift Pumping Plant, Buffalo Rapids Proj., Spec. 1439.

Bids Asked About September 6

†**W. Va., Parkersburg**—U. S. Eng., Chesapeake and Ohio Bldg., Huntington, 34 St. WW power plant, Pond Run, 5 St. and 1st St. pump stations for local protection project. Plans deposit $15.

Bids Asked

★†**California**—Bureau Reclamation, Denver, Colo., 460,000 bbl. portland cement for Friant Div. Central Valley Proj., Inv. A-048, 779-A, to Permanente Cement Co., Permanente. $1,007,529.

B. C., Campbell River—B. C. Power Comm., 918 Government St., Victoria, clearing 640 acre headpond area at Irene Pool, in connection with Campbell River power development. $100,000.

LOW BIDDERS

★†**Arizona-California-Nevada**—Bureau Reclamation, Federal Bldg. Yuma, Ariz., July 8, concrete canal lining Sta. 6267 plus 10 to Sta. 6517, Spec. 1381; Sta. 6106 plus 06 to Sta. 6267 plus 10, Spec. 1379, Coachella Canal, All American Canal Sys., from Shea Co. and Morrison-Knudsen Co., Inc., 617 S. Olive St., Los Angeles 14, Calif., $581,640 and $441,060 respectively. CD 6/19—ENR 6/27.

Calif., Los Angeles—Los Angeles Co. Flood Control Dist., 751 S. Figueroa St., rejected bids July 9, rein.-con. slabs, altering upstream face of San Gabriel Dam 2, West Fork, San Gabriel Canyon, Los Angeles Co. LB. $499,400. Will readvertise in 1947. CD 7/16—ENR 7/25, under LB.

★†**Colorado**—Bureau Reclamation, Denver, July 8, Jackson Gulch Dam, Inlet and Outlet Canals north of Mancos, Mancos Proj. Spec. 1358, from Vinnell Co., Inc., 1145 Westminster Ave., Alhambra, Calif., $1,925,906. CD 6/12—ENR 6/20.

†**Idaho**—Bureau Reclamation, 214 Broadway, Boise, July 15, earthwork, structures, C line east canal laterals 1.7 to 7.7-1.9, Conway Gulch lateral, from Sta. 2 to Sta. 60 plus 50, sublaterals, Payette Div., Boise Proj., from H. L. Horn, Caldwell. $170,702. CD 6/24—ENR 6/27.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, July 18, 2,535 lin. ft. pile dikes, Red River, vicinity of Bertrand Levee, from Hough-Cowger & Co., Landreth Bldg., St. Louis, Mo. $146,000. CD 6/27—ENR 7/4.

†**Louisiana**—U. S. Eng., foot of Prytahia St., New Orleans, July 16, 13,120 sq. yd. concrete levee slope pavement, Inv. 16-047-46-346, from Forcum-James Co., Dyersburg, Tenn. $354,240. CD 7/3.

†**Nebraska and Iowa**—**U. S. Eng., 1709 Jackson St., Omaha 2, Neb., July 17, placing 26,420 tons stone and approx. 2,000 cu. yd. grading at Floyd-Black Bird Bends in Missouri River, extending upstream from Decatur, Neb. to mouth of Floyd River at Sioux City, Ia., from Omaha Dredge & Dock Co., 803 Douglas St., $154,208. CD 7/16.**

†**North Dakota**—Bureau Reclamation, Dpt. Interior, Bismarck, will not take bids August 22, constructing Heart Butte Dam, Heart River Unit, about 18 mi. south of Glen Ullin, Spec. 1409, Missouri Basin Project. Project cancelled. CD 7/10—ENR 7/18.

†**Washington**—Bureau Reclamation, Custom House, Denver 2, Colo., July 15, six reverse flow coaster gate hoists for Grand Coulee Dam pump. plant, Grand Coulee Dam, Columbia Basin Proj., Spec. 1377, from McKiernan-Terry Corp., 313 Manor Ave., Harrison, N. J. $125,352. CD 6/12—ENR 6/20.

★†**Washington**—U. S. Eng., Textile Tower, 7 St. and Olive Way, Seattle, Zone 1 rejected bids May 22, straightening Puyallup River channel for 3 mi., constructing levees, reconstructing 6 bridges, replacing timber trestles with steel girders and trusses. L. B. $3,401,400. CD 5/29—ENR 6/6, under L. B.

CONTRACTS AWARDED

†**D. C., Anacostia**—Yards & Docks Annex, Navy Dpt., Arlington, Va., levee repairs, Naval Air Station, NOY 13777, to Helsing Bros., Inc., Woodward Bldg., Wash. $48,900. CD 6/12.

†**Fla., Key West**—**Yards & Docks Annex**, Navy Dpt., Arlington, Va., piles and dredging, NOY 13769, to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $168,750. CD 6/12.

La., Rayville—Bd. Comrs. Tensas Basin Levee Dist., Rayville, 2 floodgate structures, Caldwell and Ouachita Parishes, to Morrison Engrg. & Constr. Co., New Roads. $28,370. Bids 7/18. CD 7/10.

★†**Nebraska**—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., earth dam embankment Right Bank-First State for Harlan Co. Dam, Ser. 23-028-46-177, to Mark C. Walker & Sons Co., Santa Clara, Calif. $1,052,510. Bids 6/14 CD 6/20—ENR 6/27, under LB.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, revetment work on left bank Platte River, near Schuyler, to R. E. Kendall, 2421 Newport St., Omaha. $31,270. CD 6/27—ENR 7/4.

★†**Oregon** — **Bureau Reclamation, Bend, earthwork, structures, Sta. 2377 to Sta. 2994, north unit main canal, Deschutes Proj., Spec. 1353, to Adler Constr. Co., 3416 W. Smith St., Seattle Wash. $602,832. CD 7/3—ENR 7/11, under L. B.**

N. D., Fargo—Cass Co., Mae Classon, aud., drainage to Megarry Bros., 437 33 Ave. N., St. Cloud, Minn. $64,100. Bids 7/3.

★†**South Dakota**—Bureau of Reclamation, Dpt. Interior, Hot Springs, constructing Angostura Dam, Angostura Unit, Missouri Basin Project, Spec. 1300, to Utah Constr. Co., Ogden, Utah. $4,237,476. Bids 5/28. CD 6/17—ENR 6/20, under LB.

★†**Washington**—Bureau Reclamation, Coulee Dam, Pasco Pump laterals, Spec. 1230, to J. A. Terteling & Sons, Inc., 4011 Fairview Ave., Boise, Idaho. $714,223. Bids 5/31, awarded 6/28. CD 6/5—ENR 6/13, under LB.

★†**Washington**—Bureau Reclamation, Coulee Dam, earthwork, concrete lining, structures, Spec. 1286, to Utah Constr. Co., 1 Montgomery St., San Francisco, Calif., and Winston Bros., 411 W. 5 St., Los Angeles, Calif. $2,871,796. Bids 5/27, awarded 6/28. CD 6/3—ENR 6/6, under LB.

★†**Wyoming**—Bureau Reclamation, Thermopolis, relocating 4¼ mi. U. S. Hy. 20, crossing site of Boysen Reservoir, Spec. 1325, to Gibbons & Reed Co., 259 W. 3 St. S, Salt Lake City, Utah. $742,407; constructing camp Spec. 1320, to C. M. Smith, Thermopolis, $112,382. CD 5/3, 5/13—ENR 5/9, 5/16.

†**T. H., Pearl Harbor**—**Yards & Docks Annex, Navy Dpt., Arlington, Va., dredging, Naval Supply Depot, Fox Berths, NOY 13734, to Hawaiian Dredging Co., Ltd., 854 Kaahumanu St., Honolulu, $432,000.**

N. S., Brooklyn—Dpt. P. Wks., Ottawa, Ont., dredging harbor, to J. P. Porter & Sons, Ltd., 1010 St. Catherines St. W., Montreal, Que., $122,523. R. Blais, c/o owner, engr.

Ont., Port Hope—Dpt. P. Wks., dredging in harbor, to C. S. Boone Dredging & Const. Co. Ltd., 49 Wellington St. E., Toronto, $22,495. CD 4/8—ENR 4/18.

Ont., Sarnia—Imperial Oil, Ltd., 425 S. Christina St., sheet piling and dredging, to Canadian Dredge & Dock Co., Ltd., Harbour Comm. Bldg., Toronto, about $45,000.

Que., Matane—Dpt. P. Wks., Ottawa, Ont., reconstructing west breakwater, to Royal Mount Const. Co. Ltd., Montreal. $360,000. Bids 6/13. R. Blais, c/o owner, engr. CD 6/4—ENR 6/6.

LATIN AMERICA

Mexico—Mexican Govt., Scrita de Hacienda (Finance Ministry) Mexico D. F., constructing road between Martinez de la Torre and Misantla, state of Vera Cruz, to Carlos J. Orozco, Corona 322-A, Mexico D. F. $450,000. Awarded 7/17.

Mexico, Ciudad Madero—Municipality, WW sys., to Gremio Unido de Alijadores, Tampico. Est. $400,000. B. Fernandez y Grajeles, City Hall, Tampico, engr.

Mexico, Ciudad Madero—Municipality, sewerage sys., to Gremio Unido de Alijadores, Tampico. $350,000. B. Fernandez y Grajales, City Hall, Tampico, engr.

Mexico, Mexico City—Manuel Suares, c/o Mexican Embassy, Wash., D. C., taking bids, machinery, materials for dock, for Techo Eterno Eureka, S. A., Mexico City.

Mexico, Tampico—Municipality, water sys., distr. mains, to Gremio Unido de Alijadores, Tampico. Est. $600,000. B. Fernandez y Grajales, City Hall, engr.

Mexico, Tampico — Municipality, sewerage sys., to Gremio Unido de Alijadores, Tampico. Est. $400,000. B. Fernandes y' Grajales, City Hall, engr.

Mexico, Vera Cruz—Republic of Mexico, Mexico City, modernizing Port of Vera Cruz, piers, docks, warehouses, etc., to Techo Eterno Eureka, S. A., Mexico City. Est. $4,532,000. D. Ginwara Alarcon, c/o contractor, engr. CD 10/30/45—ENR 11/1/45.

Santa Domingo, Puerto Plata—Republic of Dominica, Ciudad Trujillo, dredging harbour 34 ft., to Felix Benitez Rexach, Ciudad Trujillo. $800,000. Ministry of Wks., Ciudad Trujillo, engr.

Venezuela—Dpt. P. Wks., Dpt. Educ., E. Mier y Teran, P. Wks. minister, Caracas, bids in October, rural schools in Tapipa, Capaya, Tacarigua de Maporal, Pinate, Paracotos, San Pedro. $725,000.

Venezuela—Minera & Comercial, SA, Caracas (G. M. Morales, administrator), will construct roads to mining properties in Gran Sabana sector, Central Venezuela, by own forces, $250,000.

Venezuela, Caracas—Dpt. Seguro Social, Caracas, Dr. M. A. Silva, dir., bids in fall, federal hospital in Vargas section. $625,000.

PUBLIC BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked After August 1

★†**R. I., Providence**—Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash. 25, D. C., bldgs. and utilities for veterans hospital, Davis Park, Chalkstone Ave. CD 4/19—ENR 4/25.

Bids Asked August 5

†**N. Y., Ossining**—Pub. Bldgs. Admin., 18 and F Sts., N.W., Wash., D. C., altering and repairing post office.

Bids Asked August 8

†**N. Y., New York**—Federal Works Agency, 18 and F Sts., N.W., Wash., 25, D. C., altering office bldg., 39 Broadway.

Bids Asked August 9

Ore., Corvallis—Consolidated School Dist. 9, 1 and 2 story, rein.-con., frame new Franklin School, agricultural-industrial shop bldg. and addn. to Washington School. $420,000. Plans deposit $75. Stokes & Allyn, Hughes Bldg., Portland, archts. CD 4/2—ENR 6/13.

Tex., Nacogdoches—Stephen F. Austin State Teachers College, c/o Dr. F. L. Boynton, pres., 3 story, 90x160 ft. brick, rein.-con. men's dormitory. $336,000. Bid date change. CD 7/12—ENR 7/18.

Bids Asked August 14

Pa., Phila.—Dpt. Property & Supplies, Main Capital Bldg., Harrisburg, addnl. facilities at State Hospital, incl. No. 1 general constr. connecting passageway between bldgs. N-6 & N7 and tunnel connecting etc. Dietry Bldg. N-5, No. 2, heating, plumbing and storm sewers of No. 1, Part 1; No. 3 electrical constr. CD 7/23—ENR 8/8.

Bids Asked August 19

★**Calif., Berkeley**—**University of California, 4 story, concrete, steel chemistry laboratory, $800,000. Plans deposit $50. E. G. Bangs, 605 Market St., and A. Brown Jr., 251 Kearney St., San Francisco, archts. CD 10/5/44—ENR 10/19/44**

PUBLIC BUILDINGS (Bids Asked, Cont'd.)

Bids Asked August 21

Ont., Toronto—Secretary Dpt. P. Wks., Ottawa, rehabilitation and 1 story, 150x350 ft. steel, rein.-con. roof addn. to City Delivery Bldg., Bay and Fleet Sts. About $250,000. Plans deposit 100. CD 4/5—ENR 6/13.

Bids Asked August 26

†**Washington**—Bureau Reclamation, Dpt. Interior, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars Odair, materials for steel warehouse, incl. passageway between Warehouses A and B, Grand Coulee Dam, Columbia Basin Proj., Spec. 1440. W. R. Young, ch. engr.

†**Wyoming**—Bureau Reclamation, Dpt. Interior, Denver, Colo., furnishing, del. f.o.b. cars, at shipping point or f.o.b. cars Cody, penstock, etc. for Heart Mountain Power Plant, Shoshone Project, Spec. 1441. W. R. Young, ch. engr.

Bids Asked August 27

Ala., Florence—State Bd. Educ., Conference Room, Montgomery 3 story, brick, concrete, steel dormitory, State Teacher College. $350,000. Warren, Knight & Davis, Protective Life Bldg., Birmingham, archts.

Ala., Jacksonville—State Bd. Educ., Conference Room, Montgomery, dormitory at State Teachers College. Warren, Knight & Davis, Protective Life Bldg., Birmingham, archts.

†**Oregon**—Bureau Reclamation, Dpt. Interior, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars Nyssa, 40x60 ft., prefabricated steel bldg. for machine shop at Nyssa, Owyhee Proj., Oregon-Idaho, Spec. 1443. W. R. Young, ch. engr.

Bids Asked August 29

†**California** — Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Coram, steel partitions, doors, frames, thresholds, steel grating with supports, steel housings, louvers, etc., for installation in Shasta Powerplant Kennett Div., Central Valley Proj., Spec. 1445.

Bids Asked August 30

†**California** — Bureau Reclamation, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Coram, steel partitions, steel doors, jambs, structural steel, louvers, grilles, stairs, floor plates, hardware, etc., for installation in Shasta Powerplant, Central Valley Proj., Spec. 1444.

Bids Asked in September

★†**Colo., Grand Junction**—U. S. Eng., 1 and Douglas Sts. N.W., Wash. 25, D. C. 150 bed general medical and surgical hospital for Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash. 25, D. C. CD 4/23—ENR 4/25.

Bids Asked September 6

Calif., Barstow—Barstow Union High School Dist., high school. Extended date. E. J. Kump Co., 251 Kearny St., San Francisco, archt. CD 7/2—ENR 7/11.

Bids Asked September 26

★**Tex., Kingsville**—Texas College of Arts & Industries, Kingsville, 3 dormitories, dining hall. $705,000. Plans deposit $25. Extended date. Phelps & Dewees & Simmons, 1515 Majestic Bldg., San Antonio, archts. F. T. Drought, First Bank Bldg., San Antonio, engr. CD 6/27—ENR 7/4.

Bids in Fall

★**N. D., Minot**—U. S. Eng., 1 and Douglas Sts. N.W., Wash. 25, D. C., 150-bed hospital for Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash. 25, D. C. CD 12/19/45—ENR 2/4/46.

★†**N. Y., Peekskill**—U. S. Eng., 1 and Douglas Sts. N.W., Wash. 25, D. C., 1984-bed hospital for Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash. 25, D. C. CD 1/8—ENR 1/10.

★†**S. D., Sioux Falls**—U. S. Eng., 1 and Douglas Sts. N.W., Wash. 25, D. C., 300-bed hospital for Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash. 25, D. C. CD 10/25—ENR 11/15.

LOW BIDDERS

†**Arizona** — Bureau Reclamation, Kingman, Ariz., June 24, warehouse, Davis Govt. Camp, Davis Dam Proj., Spec. 1357, from C. J. Dorfman, 124 N. LaBrea Ave., Los Angeles 36, Calif. $135 479. CD 5/29—ENR 6/6.

★**Calif., Corona**—Corona Union High School Dist., 817 W. 6 St., rejected bids July 8, 2 story 22 room, rein.-con. Junior High School, Main and Olive Sts., L. B. $621,930. Will readvertise. G. S. Wilson, 3681 6 St., Riverside, archt. CD 7/16—ENR 7/25 under LB.

★**Calif., Oakland**—Children's Hospital of East Bay, 5105 Dover St., July 20, 3 story wing, 2 story, rein.-con. ground floor wing, 65 bed, hospital extens., from E. J. Freethy, 1432 Kearney St., El Cerrito. $572,367. CD 7/11.

Fla., Tallahassee—State Bd. Control, Tallahassee, July 20, dormitory addn., Florida A&M College, from Dyson & Co., W. Intendencia St., Pensacola. $244,500. CD 6/27—ENR 7/4.

Ind., Albion—Bd. Comrs. Noble Co., L. Frurip, aud., Court House, rejected bids July 15, 1 and 2 story, 72x240 ft., brick, stone, steel hospital. $225,000. CD 6/10—ENR 6/13.

†**Miss., Clinton**—U. S. Eng., P. O. Box 60, Vicksburg, July 10, laboratory, from Blauner Constr. Co., 189 W. Madison St., Chicago, Ill. $232,400. CD 6/12.

Okla., Tonkawa—City, E. E. David, clk., rejected bids July 2, power plant addn. $110,000, E. A. Jones, Blackwell, engr. CD 6/25—ENR 5/2.

★**Tex., Dallas**—City, rejected bids June 26, municipal wholesale produce market bldg. L.B. $937,764. Thomas, Jameson & Merrill, 810 College St., archts. CD 7/10—ENR 7/18, under LB.

†**Washington**—Bureau Reclamation, Custom House, Denver, Colo., July 2, fabricated structural steel for 115-kv switchyard, local power station and generating unit L-9, Grand Coulee power plant, Columbia Basin, Spec. 1360, from Lehigh Structural Steel Co., 17 Battery Pl., New York. $26,535. CD 5/28—ENR 6/6.

†**Wash., Ephrata** — Bureau Reclamation, Coulee Dam, June 25, garage, Columbia Basin Proj. Spec. 1378, from M. E. Nelson Constr. Co., Inc., Ephrata. $80,567. CD 6/17.

CONTRACTS AWARDED

★**Ala., Mt. Vernon**—Alabama State Hospital, c/o Dr. W. D. Partlow, supt., Bryce Hospital, Tuscaloosa, kitchen, dining rooms, dormitory, to Daniel Constr. Co., 822 7 Ave., Birmingham. $611,559. T. C. Van Antwerp, 216½ St. Francis Ave., Mobile, archt. for dormitory. CD 6/12—ENR 6/20.

†**Calif., Corona**—Yards & Docks Annex, Navy Dpt., Arlington, Va., boiler and power plant addn., Naval Hospital, NOY 13657, to Ofcco Constr. Co., Inc., 2650 Cherry Ave., Long Beach, Zone 6. $64,102.

Calif., Los Angeles—Los Angeles City Dpt. Water & Power, Design Div., 311 S. Spring St., 2 story, rein.-con. electrical distr. station, 11170 Nebraska Ave., West Los Angeles, own forces. $355,000. S. B. Morris, 207 S. Broadway, ch. engr.

†**D. C., Wash.**—Yards & Docks Annex, Navy Dpt., Arlington, Va., bldg., Naval Communication Annex, Nebraska Ave., NOY 13630, to J. D. Hedin Constr. Co., 820 Michigan Ave. N.E., Wash. $241,800.

†**Fla., McDill Field**—U. S. Eng., P. O. Bldg., Savannah, Ga., converting bldgs. to family units, to R. E. Clarson, Inc., St. Petersburg. $241,909.

Ill., Menard—State Dpt. Pub. Safety, Armory Bldg., Springfield, general contract, altering South Cell House, Illinois State Penitentiary, to Federal Constructors, 407 S. Dearborn St., Chicago. $384,302; electrical work, to H. Chapline Electrical Co., 679 E. Big Bend Rd., Webster Groves, Mo. $23,295. C. H. Hammond, Illinois State Div. Archt. & Engr. Armory Bldg., archt. CD 6/3—ENR 6/6, under LB.

★**Mich., Flint**—State, School for Deaf, Flint, brick, steel, rein.-con., steel bldgs., for School for Deaf, to Couse & Westphal, 12740 Lyndon Ave., Detroit. $563,800. CD 9/13—ENR 9/27.

Mich., Howell—Michigan State Sanatorium, Howell, 2 brick, stone, steel, concrete dormitories, to Francis Corr & Son, 1120 Sheridan St., Lansing. $485,000. C. R. Ackley, 1811 E. Michigan Ave., Lansing, archt.

Minn., Austin—City, Bd. Water Electric, Gas & Power Comrs., W. D. Dunlap, secy., furnishing, installing switchgear, control board and transformers at municipal power plant to Westinghouse Electric & Mfg. Co., 2303 NE. Kennedy St., Minneapolis, approx. $58,000. Bids 7/2. CD 6/27.

Minn., Rochester—City, Pub. Utility Bd., A. J. Lentfer, secy., furnishing, installing main switch and control board in proposed Silver Lake power plant to Allis-Chalmers Mfg. Co., 1115 Foshay Tower, Minneapolis, approx. $90,000. Bids 5/27. Sargent & Lundy, 140 South Dearborn St., Chicago, Ill., engrs. CD 2/13—ENR 2/21.

N. C., New Bern—City, City Hall, power plant and structures, to H. A. Kuljian & Co., 1518 Walnut St., Phila., Pa., $234,600. Bids 6/25, awarded 7/15. CD 6/13—ENR 6/20.

N. J., Upper Deerfield (Bridgeton P. O.)—Upper Deerfield Twp., A. F. Clark, secy., Parsonage Rd., Bridgeton, school addns., to Seabrooke Farms Co., Bridgeton. $210,000. Awarded 7/6. Joseph Norman Hettel, 501 Cooper St., Camden, archt. CD 10/11—ENR 11/8.

★**N. Y., Brooklyn**—New York City Housing Auth., 122 E. 42 St., New York, Zone 17, site imprvs. work for Linden Houses near Linder Blvd. and Vermont St., New Lots sect., to Del Balso Constr. Corp., 220 E. 42 St., New York, Zone 17. $558,990. CD 7/17—ENR 7/25.

★†**S. C., Beaufort**—Yards & Docks Annex, Navy Dpt., Arlington, Va., Naval Hospital, NOY 13663, to Thompson & Street, Pineville Rd., Charlotte, N. C. $7,220,060. CD 7/1—ENR 7/11.

★†**Tenn., Memphis**—Yards & Docks Annex, Navy Dpt., Arlington, Va., permanent quarters for married personnel, NOY 13861, to J. A. Johnson & Sons, Inc., 270 41 St., Brooklyn, N. Y. $1,558,000.

Tex., Fort Worth—City, 150x315 ft. warehouse and shop bldg., and 50x55 ft. street dpt. shops bldg., to Paschal Sanders Constr. Co., c/o City Council, Firt Worth. $204,000. Est. $75,000.

†**Tex., Orange**—U. S. Eng., Federal Bldg., New Orleans, La., dry and cold storage plants, to Mac's Constr. Co., 3238 Mandeville St., New Orleans, La. $60,000.

†**Canal Zone, Balboa**—Yards & Docks Annex, Navy Dpt., Arlington, Va., housing site preparation, utilities and miscellaneous construction, NOY 13956, to Pan Pacific Constr. Corp., Pedro Miguel.

★†**T. H., Pearl Harbor**—Yards & Docks Annex, Navy Dpt., Arlington, Va., rehabilitation of Civilian Housing Area III, Naval Base, NOY 13577, to James W. Glover, Inc., Honolulu. $856,560.

B. C., Kimberly—Wartime Housing, Ltd., 159 Bay St., Toronto, Ont., 50 residences, to Smith Bros. & Wilson Ltd., 1267 Richards St., Vancouver, approx. $250,000.

N. S., Halifax—Dpt. Hys. & P. Wks., Halifax, power house, smoke stack, laundry, tunnels, Victoria General Hospital, Tower Rd., to Brookfield Constr. Co., Ltd., 169 Hollis St., approx. $160,000. C. St. J. Wilson, Roy Bldg., consult. engr.

N. S., Shelburne—Town, H. H. Nickerson, clk., consolidated high school, 18 classrooms, science dept., assembly hall, to Fundy Const. Co. Ltd., Russell and Isleville Sts., Halifax, about $375,000. L. R. Fairn, Main St., Wolfville, archt.

Ont., Goderich—Wartime Housing Ltd., 159 Bay St., Toronto, 50 houses, to Ryan Contracting Co. Ltd., 210 Detroit St., Windsor, approx. $250,000. CD 5/17—ENR 5/30.

Ont., Grand Bend—Dpt. P. Wks., Ottawa, repairing North Pier, to Detroit River Constr. Co., Ltd., 194 Healy St., Sandwich, approx. $55,000. R. Blais, c/o owner, engr. CD 6/5—ENR 6/6.

Ont., Hespeler—Dominion Woolens & Worsteds Ltd., Hespeler, about 50 houses, to W. J. Yates Const. Co. Ltd., 400 Wellington St., Hamilton, about $250,000. CD 7/19—ENR 8/2.

Ont., Ottawa—Dpt. P. Wks., storage bldg., Rochester St., to Alex. I. Garvock, Regent Bldg., Sparks St., $74,772.

Ont., Toronto—University of Toronto, Dr. S. Smith, pres., McLennan Laboratory addn., University grounds, to Jackson-Lewis Co. Ltd., 80 King St. W., approx. $450,000. Harwood & White, 229 Yonge St., archt.

★**Que., Montreal**—Wartime Housing Ltd., 159 Bay St., Toronto, Ont., 41 houses in Maisonneuve Ward, to Gasper Archambault, Ltd., 726 Atwater Ave., about $205,000; 109 houses in Montcalm and Mercier Wards, to L. G. Ogilvie & Co. Ltd., 2228 Walkley Ave., about $545,000. CD 7/10—ENR 7/25.

COMMERCIAL BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 14

Mo., Washington—St. Francis Borgia Catholic Parish, Washington, 2 story, bsmnt., 70x132 ft. and 33x65 ft., brick, rein.-con. L shaped St. Francis Borgia Memorial High School addn., Cedar St. between 2 and 3 Sts. F. J. Goodrich, 3 and Walnut Sts., Washington, and Froese, Maack & Becker, 705 Olive St., St. Louis, Zone 1, archts. CD 4/12—ENR 5/2.

Bids Asked August 15

Ga., Atlanta—Clarke-Kennedy Investment Co., auto hotel, 4-8 unit bldgs. Young & Fuller, 36-5 St. N.W., archts.

Bids Asked

Ill., Chicago—Owner c/o Kocher, Buss & DeKreek, archts., 7109 Stony Island, 1 story, 100x140 ft., brick, stone, Medical Art Bldg. $200,000.

★**Tex., Dallas**—I. & L. Development Co., c/o T. L. Gay, Cedar Springs Rd., 11 apartment bldgs., Inwood and Denton Rds. $1,200,000. CD 6/17—ENR 6/27.

Tex., Spring Branch — Sherwood Forest Motor Hotel Co., c/o N. A. Parker, Esperson Bldg., Houston, motor hotel over 100 steel and asbestos siding units. $400,000. CD 7/12—ENR 7/25.

SOON LETS CONTRACT

Ill., Chicago—Illinois Masonic Hospital, 834 Wellington St., soon lets contract 5 story, 81x175 ft., brick, stone, concrete, steel hospital wing addn. $350,000. Schmidt, Garden & Erikson, 104 S. Michigan Ave., archts. CD 7/17.

★**Mass., Medford** — Jackson College for Women, Dr. Edith L. Bish, dean, Tufts College, Medford, soon lets contract, Henry Clay Jackson Memorial gymnasium, dormitory for 150 students, Talbot Ave. $500,000. Louis Warren Ross, 20 Kilby St., Boston, archts., Hubbard, Rickerd & Blakely, 84 State St., Boston, engrs. CD 5/9—ENR 5/23.

Tex., Dallas—Southern Methodist University, Dallas, soon lets contract 350 men's dormitory, $350,000. M. Lemmon, c/o Tower Pet. Bldg., archt. CD 5/7/45—ENR 5/17/45.

COMMERCIAL BUILDINGS (Cont'd.)

LOW BIDDERS

Conn., Middletown—Denis O'Brien & Sons, 51 Saybrook Rd., 35 single, frame homes, Bow Lane, Saybrook Rd., Dobson Square and Frisbie St., own forces. **$230,000.**

Md., Baltimore — Immanuel Evangelical Lutheran Church, F. H. N. Helman, chn. Bldg. Comm., c/o W.M.R.R. 300 Standard Oil Bldg., church and day school, from E. Eyring & Sons Co., 808 S Conkling St. **$225,000** or more. CD 6/14—ENR 6/20.

Pa., Yardley—Charles E. Metz, Yardley, residential development, separate contracts. Over **$205,000.**

CONTRACTS AWARDED

★**Ala., Mobile**—Waterman Steamship Co., Merchants National Bank Bldg., 22 story, brick, concrete, steel office bldg., to J. P. Ewin, Inc., c/o owner. **$2,600,000.** Roberts & Long, First National Bank Bldg., archts.

★**Calif., Long Beach**—Buffum's Dpt. Store, 131 Pine Ave., excav. bsmnt., footings, steel columns, girders, mezzanine, store imprvs., etc., to Wale-Camplan Co. & Smith Inc., 1670 Beverly Blvd., Los Angeles. Approx. **$1,000,000.** CD 1/25—ENR 2/7.

Calif., North Hollywood—Notre Dame University, South Bend, Ind., 2 story, 53x236 ft. Notre Dame High School, concrete and timber dormitory. Woodman Ave. and Riverside Dr., to L. A. LeFevre, 4916 Ben Ave., North Hollywood. Over **$205,000.** L. D. Volle, 3220 Laurel Canyon Blvd., North Hollywood, engr.

Calif., San Carlos—Herman Christensen, 1399 21 Ave., San Francisco, 71 residences, own forces. **$350,000.**

★**Calif., San Carlos**—Gould Constr. Co., 680 Laurel St., San Francisco, 275 residences, own forces. Over **$1,000,000.**

Calif., San Jose—Veteran Cooperative Housing Proj., c/o G. E. Sobey, archt., 69 S. 1 St., 30 five and six room residences, to A. G. Elwin, Rte. 1, Box 43, Los Altos. **$210,000.**

★**Calif., Walnut Creek**—Developers Inc., c/o A. Chapman Co., 1706 Broadway, Oakland, 214 frame residences, Hook Estate, own forces. **$2,000,000.**

Conn., Middletown—Southern N. E. Tel. Co., 227 Church St., New Haven, 3 story, 75x130 ft. heavy constr. for future 6 story, telephone exchange bldg., Broad and College Sts., to J. Warren Mylchreest, Inc., 33 Brainerd Ave. Est. $450,000. R. W. Foote, 157 Church St., archt.

Del., New Castle—A. J. Vilone, 1712 Linden St., Wilmington, residential development, Sycamore St., separate contracts. Over **$205,000.**

Del., Newport—J. G. Justice Co., Inc., Newport, residential development, separate contracts. Over **$205,000.**

Ga., Athens—St. Mary's Hospital, Milledge Ave., 3 story, hospital addn., to Mathis Constr. Co., Lumpkin St. Over **$205,000.**

★**Ga., Atlanta**—Long Constr. Co., 32 Mt. Pleasant St., Charleston, S. C., thirty-five, 200 apartment units, own forces. **$2,000,000.**

★**Ga., Atlanta**—Roy D. Warren Co., Inc., Mortgage Guarantee Bldg., 52 brick houses, Forest Park subdivision, **$350,000;** 33 brick houses, West End, **$245,000;** 50 brick houses, Forest acres, **$325,000,** own forces.

Ill., Bloomington—Illinois Wesleyan University, 210 University Ave., women's dormitory, to John Felmley Co., 603 Peoples Bank Bldg. Est. approx. **$300,000.** CD 7/19/44—ENR 7/27/44.

★**Ill., Chicago**—Chicago Title & Trust Co., 69 W. Washington St., remodeling first 6 floors, Conway Office bldg., to G. A. Fuller Co., 111 W. Washington St. Est. **$800,000.** CD 4/17.

★**Ill., Chicago**—A. C. Nielsen Co., 2101 W. Howard St., 4 story, 59x199 ft., brick, concrete, steel office addn., separate contracts. $600,000. Walton & Kegley, 626 Grove St., Evanston, archts.

Ill., Des Plaines—St. Mary's Training School, Des Plaines, 2 story, 2 wing, brick training school addns., to George Kehl & Son, 1225 N. Maplewood Ave., Chicago, plumbing, to C. Bruckner & Son, 503 W. 26 St., Chicago. Est. $300,000.

Mass., Cambridge—Brown Durrell Co., 104 Kingston St., Boston, brick, steel storage and administration bldg., to Thomas O'Conner Co., Inc., 238 Main St. Est. **$425,000.** J. R. Worcester & Co., 79 Milk St., Boston, engrs.

Mass., Medford—Tufts College, Medford, college units altering engineering unit, constructing machine engineering bldg. and machine laboratory, to Wellington Rose, 31 Forest St., Melrose. Est. over **$205,000.** A. A. Dirlam, 673 Boylston St., Boston, archt.

Mass., Waltham—Home Builders, Inc., 181 Warren St., 27 single houses, Longfellow, Whitman and Tennyson Rds., to Simon S. Black, 211 Wolcott Rd., Brookline. Est. $233,000. R. I. Williams, 42 Haviland Rd., Wollaston, archt.

Minn., Minneapolis—Westgate Apartments, Inc., 1214 Bldrs. Exch. Bldg., general contract fourteen 4-flat units each 2 story bsmnt., 36x54 ft. rein.-con., brick, cut stone, four gas fired heating plants in each unit, Chowen and Drew Aves. south between 44 St. and 45 Sts., to Fleisher Eng. & Constr. Co., 1214 Bldrs. Exch., approx. **$476,000.** P. E. Crosier, 816 Pence Bldg., Minneapolis, archt.

★**Mo., Independence**—Certified Engrg. & Construction Co., c/o J. R. Prewitt, 1720 Brookside Ave., 250 residences, day labor. **$2,000,000.**

Mo., St. Louis—Schuermann Building & Realty Co., 6104 Easton Ave., Zone 14, sixty-two 1 story, 24 x 33 ft., brick bungalows, concrete fdns. in 1300 blocks Fairmount and San Jacinto Aves., Zone 10, own forces. Over **$248,000.**

Mo., St. Louis County—Gene L. and Berenice Vescova, 6530 Glenmore Ave., St. Louis, Zone 20, 37 one story, 24 x 40 ft., brick, dwellings, Green Hills Park Subdivision, Mehlville, St. Louis Co., own forces. Over **$259,000.**

N. J., Camden—Rayson, Inc., 702 Market St., residential development, separate contracts. Over **$205,000.**

N. J., Ocean Gate—James Melville, Wildwood and Bayview Aves., residential development, separate contracts. **$205,000.**

N. C., Charlotte—Wachovia Bank & Trust Co., J. F. Watlington Jr., vice-pres., 128 S. Tryon St., 4 story, bsmnt., 70x40 ft., bank addn., air conditioned, S. Tryon St., to J. A. Jones Constr. Co., 209 W. 4 St., approx. **$205,000.** W. W. Hook, Commercial Bank Bldg., archt.

N. C., Raleigh—York Bldg. Co., 13 Maiden Lane, residences, Georgetown section, northern part of city. Own Forces. **$222,000.**

N. C., Raleigh—Georgetown Housing Corp., Raleigh, 37 one story frame houses, to The York Bldg. Co., 13 Maiden Lane, **$220,000.**

O., Cleveland—Dollar Constr. Co., J. Newman, 16101 Onaway Rd., forty 2 story, 24x26 ft., frame, single houses, Stockbridge Ave. Owner builds. **$300,000.**

★**Ore., Eugene**—F. Kinney and J. O. Adams, 96 E. Bway., 600 houses, incl. water sys., etc., to Ace Constr. Co., 4427 S.E. Woodstock Blvd., Portland. Est. **$3,500,000.**

Ore., Klamath Falls—Gregg Constr. Co., 3205 S. 6 St., 30 houses, day labor. **$210,000.**

Ore., Portland—W. C. Smith, Inc., Bd. Trade Bldg., 39 houses in 8800 and 8900 blocks of N.E. Brazee St., day labor. **$310,000.** V. Cochrane, Lumbermen's Bldg., archt.

★**Ore., Portland**—Western Homes, 202 Park Bldg., 236 houses, southeast Portland, day labor. **$1,500,000.**

Pa., Allentown—M. M. Wiener, 112 N. 7 St., 23 residences, separate contracts. **$250,000.** L. J. Cowan, 1237 Market St., Phila., archt.

Pa., Bethayres (Fox Chase P.O.)—Emil Stahl & Son, 7975 Oxford Ave., residential development, separate contracts. Over **$220,000.**

★**Pa., Bristol**—National Housing Inc., 123 S. Broad St., Phila., 600 residences, separate contracts. **$4,000,000.** Edward P. Simon, 123 S. Broad St., Phila., archt.

★**Pa., Chester**—Fairlamb Constr. Corp., 7052 Garrett Rd., Upper Darby, residential development, 412 homes, 21 and 22 Sts., separate contracts. **$3,440,600.**

★**Pa., Croydon**—Howard L. Leister, Bristol, 100 residences, separate contracts. **$1,000,000.** A. Raymond Assoc., 101 Park Ave., New York City, N. Y., engr. and archt.

Pa., Drexel Hill—Ralph Bodlk, 146 Long Lane, Upper Darby, residential developments, State Rd. and Alexander Ave., separate contracts. Over **$205,000.**

Pa., Elkins Park—Albert A. Toll, Lincoln Liberty Bldg., Phila., residential development, York Rd., Spring Ave. and Cedar Lane, separate contracts. Over **$500,000.**

Pa., Manoa (Havertown P.O.)—Raymond Facciola, 139 E. Broadway Ave., Clifton Heights, residential development, separate contracts. **$220,000.**

Pa., Muncy—Robert H. Abbott, 23 N. Main St., residential developments, separate contracts. Over **$205,000.**

Pa., Paxtong (Harrisburg P.O.)—Clyde C. Holland, 11 Paxtong Ave., Harrisburg, residential development, separate contracts. Over **$205,000.**

Pa., Phila.—Joseph L. Brady, 3101 Wellington St., residential developments, separate contracts. Over **$210,000.**

★**Pa., Phila.**—Corp. c/o Mayer I. Blum, pres., 2501 Parkway, apartment development, to Turner Constr. Co., 1500 Walnut St., **$4,000,000.** Awarded 7/21. CD 12/20/45—ENR 1/10/46.

★**Pa., Phila.**—Ecklin Crawford Schwartz, 763 Hellerman St., 60 residences, Stevens St., separate contracts. **$500,000.**

Pa., Phila.—Philip Litman, 2208 N. 51 St., apartment development, separate contracts. Over **$205,000.**

Pa., Phila.—Marley Development Co., 514 E. Roosevelt Blvd., 48 residences, Mayfair Section, Unruh and Revere Sts., separate contracts. **$450,000.**

Pa., Phila.—Max Perkins, 1725 N. Wilton St., residential development, Torresdale Ave., separate contracts. Over **$205,000.**

Pa., Phila.—John T. Ross, 653 S. 53 St., residence and apartment developments, Church Lane and Greenway Ave., separate contracts. **$220,000.**

Pa., Phila.—Roumfort Gardens, 742 Real Estate Trust Bldg., apartment development, to Boardman Smith Corp., 1322 W. Airdrie St., **$250,000.** Awarded 7/6—J. E. Fieldstein, Bankers Security Bldg., archt.

Pa., Phila.—A. Spino, 5801 N. American St., apartment development, separate contracts. **$210,000.** Garner & Schoch, 10 S. 18 St., archt.

Pa., Phila.—Temple University Hospital, Broad and Ontario Sts., hospital addns., alterations, to Frank J. Larkin Constr. Co., Inc., 1520 Parrish St., over **$205,000.** Awarded 7/11. CD 7/1—ENR 7/18.

★**Pa., Phila.**—Tyson Constr. Co., 132 Garrett Rd., Upper Darby, residential development, Green hill, Sherwood, Brentwood and West End Rds., separate contracts. Over **$7,000,000.**

Pa., Roslyn—Lynore Garden Homes, 1313 N. American Bldg., Phila., residential development, separate contracts. Over **$205,000.**

Pa., State College—R. D. Beman, 410 N. Fairview St., Lock Haven, residential development, separate contracts. Over **$205,000.**

Pa., Wilkes Barre—Fred M. Harrison, 470 S. Franklin St., residential development, separate contracts. Over **$205,000.**

S. C., Anderson—Ross Builders Supply, Anderson, 32 brick houses. Owner builds. **$210,000.**

S. C., Columbia—Baptist Hospital, 1519 Marion St., 6 story hospital, to C. G. Shockley, 2020 Blanding St. **$250,000.** CD 4/8—ENR 4/18.

Tex., Austin—T. Yeates & A. Fitzpatrick, Austin, 4 story, bsmnt., hotel and stores, to J. M. Odom, P. O. Box 774. **$210,000.** Giesecke, Kuehne & Brooks, 904 Littlefield Bldg., archts.

★**Tex., Dallas**—Alford Terminal Warehouse, Merchants Cold Storage Bldg., 3 storage warehouses, force account. **$1,925,000.** M. C. Kleuser & Assoc., 4331 Gilbert St., archt. CD 7/10—ENR 7/18.

Tex., Dallas—Rouse & J. C. Howell, Irwin-Keasler Bldg., 50 dwellings, Illinois St., and 40 brick, stone dwellings, to W. Roberts & Sons, Rep. Natl. Life Bldg. **$750,000.** CD 7/22—ENR 8/1.

Tex., Duncanville—Crown Constr. Co., R. L. Clark Pelt, 2215 Lawndale St., Dallas, addnl. residential constr., south of Cockrell Hill. Owner builds. **$300,000.**

★**Tex., Goose Creek**—San Jacinto Memorial Hospital, Goose Creek, 100 bed hospital, to W. S. Bellows Constr. Co., 716 N. Everton St., Houston, approx. **$1,500,000.** CD 4/3—ENR 4/18.

Wash., Seattle—Capitol Constr. Co., 1819 134 St., 48 houses in 1600 and 1800 blocks on S. 134 to 136 Sts., day labor. **$336,000.**

Wash., Spokane—Hillcrest Homes, Inc., W. 2208 Wellesley, 30 houses, W. Wellesley, Broad, Olympia, Belt, Oak and Elm Sts., day labor. **$214,600.**

Wash., Spokane—Manito Development Co., 508 Mohawk Bldg., thirty 1 story frame houses, day labor. **$270,000.**

Wash., Tacoma—College of Puget Sound, 1500 N. Warner St., 42x140 ft., rein.-con. dormitory, to Macdonald Bldg. Co., 1517 S. Tacoma Way. Est. **$230,000.** E. N. Dugan, Rust Bldg., E. T. Mock, Perkins Bldg., and N. J. Morrison, Perkins Bldg., archts. Smith & Murray, Perkins Bldg., engrs. CD 6/13/45—ENR 6/28/45.

Wis., Kenosha—Kenosha Hospital, 6308 8 Ave., 3 story brick, concrete, steel hospital addn., to Peter Ploskee, Lake Shore Rd. Est. **$250,000.** Schmidt, Garden & Erikson, 104 S. Michigan Ave., Chicago, Ill., archts.

Wis., Oshkosh—E. A. Precour, 69 Sterling St., 50 houses some brick, stone, frame. **$5,500-$10,000** each. Owner builds. T. H. Irion, 204 Evans St., archt.

Wis., Racine—Wisconsin Telephone Co., 722 N. Broadway, Milwaukee, Zone 2, central office bldg. addn., 2 story, bsmnt., 32x33 ft. and partial 3rd story, 35x40 ft. over present bldg., to Bondgaard Const. Co., 1135 Mound Ave. Est. **$210,000.** Brust & Brust, 135 W. Wells St., Milwaukee, Zone 3, archts. CD 7/12—ENR 7/25.

Ont., Brockville — Housing Enterprises (Brockville), Ltd., D. H. Storms, mgr., 395 Fleet St. W., Toronto, 44 single family and 3 semi-detached dwellings, to L. G. Ogilvie & Co., Ltd., 2228 Walkley Ave., Montreal, Que., approx. **$280,000.** CD 6/27.

Ont., Fort William—Chapples Ltd., Fort William, departmental store addn., to Claydon & Co. Ltd., Fort William. Est. **$325,000.**

Ont., Fort William—Brien O'Brien, Graham Horne Bldg., 59 residences, to Hacguoil & Houston, Fort William, about **$295,000.** CD 4/16—ENR 4/25.

Ont., Kingston—Housing Enterprises (Kingston), Ltd., D. H. Storms, mgr., 395 Fleet St. W., Toronto, 72 single family dwellings, 6 semi-detached to L. G. Ogilvie & Co., Ltd., 2228 Walkley Ave., Montreal, Que., approx. **$480,000.**

★**Ont., London**—Housing Enterprises (London) Ltd., 395 Fleet St. W., Toronto, 184 single family dwellings, to Hill-Clark-Francis, Ltd., Whitewood Ave., New Liskeard. About **$920,000.** CD 6/6—ENR 6/13.

COMMERCIAL BUILDING (Contract Awarded, Cont'd.)

★**Ont., Nipigon**—Longlac Pulp & Paper Co. Ltd., 263 Adelaide St. W., Toronto, 1,000 houses, to Ontario Const. Co. Ltd., Box 36, St. Catherines, approx. $4,000,000. C. W. Nelson, c/o owner, engr.

Ont., Thorold—Ontario Paper Co. Ltd., Allanburg Rd., office structure, to Foundation Co. of Ontario, Ltd., 1158 Bay St., Toronto, about $300,000. Allward & Gouinlock, 57 Bloor St. W., Toronto, archts.

★**Ont., Toronto**—Housing Enterprises of Canada, Ltd., 139 Fleet St., two 2 story and four 3 story apartments, Danforth Ave. and Main St., also six 3 story apartments, Queen St. E., 36 suites on Doel St., to John Maguire Co. Ltd., 24 Birch Ave., about $700,000. CD 11/19/45—ENR 12/2/45.

Que., Verdun—Parish of Notre Dame de la Garde, Rev. O. Naud, curie, church and presbytery, Brault Ave. near Barmantgne Ave., to Charles Duranceau, Ltd., 5847 Hamilton St., Montreal, approx. $245,000. J. A. Dutrisac, 1069 Beatty Ave., archt.

Sask., Saskatoon—Housing Enterprises (Saskatoon), Ltd., D. H. Storms, mgr., 1791 Rose St., Regina, 40 single and 5 semi-detached family dwellings, to Shouguist Constr. Ltd., Toronto General Trust Bldg., approx. $300,000. CD 6/20—ENR 6/27.

INDUSTRIAL BUILDINGS

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 8

Man., Birch River—RAILWAY STATION—Canadian National Rys., B. Wheelwright, chf. engr. (oper.), 360 McGee St., Montreal, Que., railway station. $50,000.

Sask., Endeavour—STATION—J. L. Charles, ch. engr. (Western Region), Canadian Natl. R. R., Winnipeg, Man., railway station. $50,000.

Bids Asked August 14

Ga., Atlanta—TERMINAL and GARAGE—McDonough Motor Express, Inc., Meridian, Miss., 1 story, brick, concrete, steel, trucking terminal, service garage. $75,000. C. Risher, Three Foot Bldg., Meridian, Miss., archt.

Bids Asked August 15

★**Ont., Weston**—PLANT—G. Weston, Ltd., R. A. Robertson, secy., bakery Laurence Ave. at Jane St. $1,200,000. Ross & Ross, Dominion Sq. Bldg., Montreal, archts. CD 6/14—ENR 6/27.

Bids Asked August 31

Del., Claymont—SERVICE—General Chemical Co., Marcus Hook, service bldg. $55,000. CD 7/9—ENR 7/11.

Bids Asked

Ill., Chicago—PLANT—Globe Roofing Products Co., 2211 Schrage St., Whiting, Ind., 1 story, brick, steel, concrete, fiber milling plant. $275,000. Conrad & Young, Walpole, Mass., engrs.

Ill., Chicago—GARAGE—Hawthorne Melody Farms Dairy, 4224 W. Chicago Ave., 1 story, 118x200 ft., brick garage.

Minn., St. Paul—SHOP, etc.—Kremer Spring & Alignment Co., 135 E. 12 St., 55x150 ft. concrete, brick salesroom and shop expansion addn., Robert St. near 12 St. $55,000. J. C. Niemeyer, 1075 Lombard Ave., archt.

Pa., Phila. — MANUFACTURING — Henry Bowers Chemical Mfg. Co., 29 St., and Grays Ferry Ave., mfg. bldg. and railroad siding. $60,000.

Pa., Phila. — WINERY — L. Magaziner, archt., 1701 Walnut St., winery for owner, c/o archt. Over $55,000.

SOON LETS CONTRACT

Ala., Greenville—ELECTRIC SUBSTATIONS—Pioneer Electric Co-operative, Inc., soon lets contract electric substations. Southwest Engrs., P. O. Box 6099, Dallas 2, Tex., engrs.

Calif., Richmond — WAREHOUSE-SHOP, etc.—Standard Oil Co., 225 Bush St., San Francisco, soon lets contract warehouse, office, machine shop, modernizing wharf. A. W. Earl, 233 Sansome St., San Francisco, engr.

Ind., Indianapolis—PLANT—Banquet Ice Cream Co., 1214 Southeastern Ave., soon lets contract 2 story, 48x150 ft., brick, steel, reinforced concrete ice cream mfg. and milk processing plant. $100,000. O. A. Tislow, 818 Archts. & Bldrs. Bldg., engr. CD 7/12—ENR 7/18.

★**Mo., Kansas City**—GARAGE—Santa Fe Trail Co., c/o Mr. Dillis, 11 and McGee Sts., soon lets contract garage, $530,000. Marshall & Brown, 114 W. 10 St., Kansas City, Mo., archts. CD 7/17.

Pa., Chambersburg — MANUFACTURING—H. J. Heinz Co., 1062 Progress St., Pittsburgh, soon lets contract mgf. bldg. alterations, addns. Over $55,000.

Pa., Essington — MANUFACTURING—Linde Air Products, 2 Ave., soon lets contract mfg. bldg. alterations $60,000.

Ont., Toronto—GARAGE and SERVICE—Bell Telephone Co. of Canada, 76 Adelaide St. W., soon lets contract 120x192 ft., reinforced-concrete, steel trusses, brick garage and service bldg., Mt. Pleasant Rd. About $85,000. Mathers & Haldenby, archts.

Ont., Toronto — SHIPPING and BOILER UNIT—Planters Nut & Chocolate Co., Ltd., 7101 Florence St., soon lets contract 2 story, 79x118 reinforced-concrete, brick, concrete shipping and boiler unit. About $80,000. R. P. Allsop, 1221 Bay St., engr. J. H. Haffa, 96 Bloor St. W., archt. CD 6/17—ENR 6/27.

LOW BIDDERS

Ga., Atlanta—SALES and SERVICE—Moore-Briscoe Co., c/o W. J. J. Chase, archt., 140 Peachtree St., July 9, auto sales and service bldg., from Ira Hardin, 1630 N. Emery Rd. $100,000. CD 6/25—ENR 6/27.

Ia., Estherville — PLANT — Tobin Packing Co., E. F. Voight, mgr., Estherville, cancelled bids to have been opened Feb. 28, brick, concrete hog killing plant. Over $50,000 Henschein, Everds & Crombie, 59 East Van Buren St., Chicago, engrs. CD 2/21—ENR 2/28.

Pa., Phila. — GARAGE, etc. — Needhams Motor Service Inc., 1409 Parrish St., rejected bids garage and service bldg. Over $75,000. A. H. Childs Hordons, 1420 Chestnut St., archt. CD 5/23—ENR 6/6.

Tex., Corpus Christi—PLANT—Southern Alkali Corp., c/o O. N. Stevens, July 17 addnl. bldgs. at plant, from J. W. Phillips, Box 3253. $176,250. CD 7/3.

Wash., Seattle—LAUNDRY—Empire Laundry & Dry Cleaning Co., Western Ave. and Bell St., Zone 1, July 10, 2 story, part bsmnt., 120x190 ft., reinforced-concrete, laundry, from Aurora Constr. Co., 2473 Aurora Ave. $321,527. CD 7/9—ENR 7/18.

Wis., Alma — GENERATING PLANT — Dairyland Power Co-operative, Genoa, July 12, superstructure for steam generating plant, REA Proj. Wis. 64 LaCrosse, from Cook Const. Co., 2608 Nicolett Ave., Minneapolis, Minn. $395,553. V. E. Alden, 120 S. LaSalle St., Chicago, Ill., engr. CD 1/29—ENR 1/31.

CONTRACTS AWARDED

Ala., Decatur—FEED—Nebraska Consolidated Mills Co., Decatur, brick, concrete, steel livestock feed bldg., to Ryan Constr. Co., 2606 Taylor Ave., Omaha, Neb. $117,265.

Calif., Alameda—FACTORY—Shasta Pump Co., 792 22 St., Oakland, 1 and part 2 story, 100x200 ft. factory, to Elder & Ownes, Encinal Ave. Est. $55,000. R. A. Hutchison, 3433 Andover St., Oakland, archt.

Calif., Banning—PLANT—Taft Abras, 153 Roosevelt Rd., converting bldg. into mfg. plant, San Gorgonio, near here, own forces. $250,000.

Calif., Culver City — FACTORY — Stanley Rackow, 12538½ S. Dunsmuir Ave., Los Angeles, 1 and part 2 story, 120x260 ft., wood frame, stucco factory, 3603-15 Hayden St., to J. J. Stokes, 5036 W. Jefferson Blvd., Los Angeles. $95,000.

Calif., Culver City—SOUND STAGE—Hal Roach Studios, Culver City, 120x172 ft., sound stage, 31x45 ft., frame, stucco motor-generator bldg., to T-S Constr. Engineers, Inc., 530 W. 6 St., Los Angeles. $200,000. J. T. Wilson, 2008 W. 7 St., Los Angeles, engr.

Calif., Fresno—PLANT—Swift & Co., Union Stock Yards, Chicago, Ill., poultry dressing plant, to L. H. Hansen & Sons, 313 Palm St. $127,362. CD 7/2—ENR 7/11.

Calif., Hanford—PLANT—Hanford Milk Co., 612 W. 5 St., 70x220 ft., brick, steel, tile, plant addn., to R. H. Hougham, 1420 Kawaeh St. Est. $125,000.

Calif., Huntington Park—STORAGE—J. W. Shepherd, 2936 E. Florence Ave., 2 story, 100x113 ft., reinforced-con., wood trusses, reinforced-con. storage bldg., 2946 E. Florence Ave., to E. S. McKittrick Co., 7839 Santa Fe Ave., approx. $100,000. R. H. Gwynn, Douglas Bldg., Los Angeles, engr.

Calif., Los Angeles — FACTORY — Artcraft Paper Box Co., 3716 S. Grand Ave., 1 story, 92x149 ft., steel, reinforced-con. factory, 3716 S. Grand Ave. to Buttress & McClellan, 1013 E. 8 St. $75,000. J. MacDonald, 1013 E. 8 St., archt.

Calif., Los Angeles—FACTORY—G. H. Brown Sportswear Co., 407 E. Pico Blvd., 2 story, 44x146 ft., steel frame, granite factory, 1805 S. Olive St., to Winter Constr. Co., 2404 W. 7 St. Approx. $75,000. F. A. Sayler, 953 S. Hope S. Hope St., engr. CD 4/11—ENR 4/18.

Calif., Los Angeles—FACTORY—Eugene Schneider, Inc., 1398 W. Sunset St., 1 story, 95x120 ft., masonry factory, 1755 Blake Ave., to Contracting Engineers Co., 2310½ W. Vernon Ave. Approx. $60,000. M. P. Miller, 111 W. 7 St., archt.

Calif., Los Angeles—FACTORY—Photo Developing, Inc., 1776 S. Robertson Blvd., 1 story, 125x200 ft. gunite factory, 11915 W. Olympic Blvd., to J. O. Oltmans & Sons, 810 E. 18 St. Approx. $75,000. CD 5/8—ENR 5/23.

Calif., Los Angeles—FACTORY—See's Candy Shops, Inc., 1834 S. Figueroa St., 1 story, reinforced brick factory, 5725 W. Jefferson St., to Ted R. Cooper Co., 1121 S. Hill St., $134,138. CD 5/22—ENR 6/13.

Calif., Los Angeles — GARAGE — Sunbury Realty Co., c/o Heitschmidt & Matcham, archts., 417 S. Hill St., 1 story, reinforced-con. garage, 9 and Blaine Sts., to T. S. Constr. Engineers, Inc., 530 W. 6 St. Approx. $120,000.

Calif., Maywood — FACTORY — National Automotive Fibres, Inc., 6001 Randolph St., 1 story, 100x465 ft., steel factory, to Alco Constr. Co., 5423 Flemish Village Lane, Los Angeles, approx. $275,000. Taylor & Taylor, 303 W. 3 St., Los Angeles, engrs. and archts.

Calif., Modesto—WINERY—E. J. Gallo Winery, B.W. 4213, 1 story, reinforced-con. winery, own forces. $75,000. J. B. Anthony, 174 Grand Ave., Oakland, archt.

★**Calif., Plaster City**—PLANT—U. S. Gypsum Co., 816 W. 5 St., Los Angeles, group 5 small and 1 large bldgs., wallboard plant, to Morrison-Knudsen Co., Title Guarantee Bldg., Los Angeles, over $1,000,000. CD 6/6—ENR 6/27.

Calif., Richmond—PLANT—Galen Co., Inc., 2148 4 St., Berkeley, plant and offices, to W. R. Owen, 5755 Landregan St., Emeryville. Est. $75,000. V. Raney, 233 Post St., San Francisco, archt. CD 1/4—ENR 1/17.

Calif., San Francisco — FACTORY and WAREHOUSE—Hexol Inc., 966 Mission St., 1 story, steel, reinforced-con. factory and warehouse, to A. F. Mattock, 212 Clara St. Est. $80,000. G. Washington, 417 Market St., engr.

Calif., South Gate—FOUNDRY—Herco Co., 2605 E. 26 St., Vernon, 146x169 ft., steel corrugated iron foundry, 5235 Southern Ave., to Shannahan Bros., 6193 Maywood Ave., Huntington Park, $60,000. W. M. Bostock, 3334 Live Oak St., Huntington Park, engr.

Calif., Vernon—FACTORY—Canada Dry Ginger Ale, Inc., 816 W. 5 St., Los Angeles, 1 story, 186x196 ft., masonry factory addn., to Pozzo Constr. Co., 2402 Riverside Dr., Los Angeles, approx. $175,000. Hillman & Nowell, 816 W. 5 St., Los Angeles, engrs.

★**Calif., Vernon** — WAREHOUSE — United-Rexall Drug Co., 314 W. 6 St., Los Angeles, 2 story, 275x320 ft., reinforced-con. warehouse, remodeling 1 story, 300x300 ft., brick warehouse, Fruitland Ave. and Soto St., to L. C. Dunn Co., 417 S. Hill St., Los Angeles, over $500,000. A. Roller, 417 S. Hill St., Los Angeles, archt.

Calif., Vernon — WAREHOUSE — Wilson Paper Co., 4200 S. Alameda Ave., 3 masonry warehouses, own forces, $125,000. Webber & Co., 606 S. Hill St., Los Angeles, engrs.

Calif., Wilmington—WAREHOUSE—Republic Supply Co., 607 W. B St., 1 story, 100x110 ft., reinforced-con. warehouse, to Buttress & McClellan, 1013 E. 8 St., Los Angeles. $80,000. J. MacDonald, 1013 E. 8 St., Los Angeles, archt.

Calif., Yorba Linda—FACTORY—International Furniture Co. of Chicago, 666 Lakeshore Dr., Chicago, Ill., 60x480 ft., steel, reinforced-brick furniture assembly factory, Imperial Hy. at Eureka Ave., railroad spur, etc., to Myers Bros., 3407 San Fernando Rd., Los Angeles. Approx. $140,000. Perlitter & Soring, 108 W. 6 St., Los Angeles, engrs. CD 4/17—ENR 4/25.

Conn., New Haven—WAREHOUSE—Smedley Co., 165 Brewery St., 1 story, 160x180 ft., steel, cinder block warehouse, Poplar and River Sts., to C. W. Blakeslee & Sons, Inc., 61 Waverly St. Est. $85,000. CD 5/6—ENR 5/9.

Conn., Stamford—FACTORY-LABORATORY—Air Reduction Co., Inc., 41 Magee Ave., brick, concrete factory-laboratory, incl. machine shop, West Ave. extens., to W. J. Barney Corp., 101 Park Ave., New York, N. Y. Est. $55,000.

★**Fla., Jacksonville**—REPAIR SHOPS—Seaboard Airline Railway Co., W. D. Simpson, ch. engr., Seaboard Air Lines Bldg., Norfolk 10, Va., diesel engine repair shops, pits, cranes, facilities, to Hillyer & Lovas, Consolidated Bldg. $500,000.

Fla., Miami—GARAGE, etc.—Munroe Zeder, Inc., c/o J. Voorhies, archt., 7003 Biscayne Blvd., 100x135 ft., concrete, steel garage and showroom, to T. P. Coogan Co., DuPont Bldg., $60,000.

★**Fla., Pensacola**—PAPER MILL—St. Regis Paper Co., 230 Park Ave., New York 17, N. Y., paper mill, to Merritt-Chapman & Scott Corp., 17 Battery Pl., New York 4, N. Y. Est. $10,000,000. CD 7/22—ENR 8/1.

Fla., Winter Haven—PLANT—Florida Fruit Distillery, Inc., Winter Haven, distillery plant, separate contracts. $200,000. Colish & Etter, 117 S. 17 St., Phila., Pa., archts.

Ga., Marietta—MILL—Clark Realty Co., Marietta, 102x140 ft., concrete, steel, brick hosiery mill, own forces, $60,000.

Idaho, Boise—GARAGE-OFFICE—Overland Greyhound Lines, 215 N. 9 St., 1 story, garage and operational office, day labor. $55,000.

Ill., Chicago—FACTORY—General Fibre Co., 3100 S. California St., 1 story, 150x200 ft., brick, concrete, steel factory, to Carl Eriksen Co., 4753 N. Broadway. Est. $100,000. CD 2/21.

Ill., Chicago—FACTORY—Rheem Mfg. Co., 3700 S. Kedzie St., 1 story, brick, concrete, steel factory addn., to Poirot Constr. Co., 2001 W. Pershing Rd. Est. $300,000. CD 6/14—ENR 6/20.

INDUSTRIAL BUILDINGS (Contracts Awarded, Cont'd.)

Ill., East Peoria — PLANT — Caterpillar Tractor Co., 600 W. Washington St., substructure 1 story, 1100x750 ft., Peoria, brick, steel engine plant, to S. N. Nielson Co., 3059 Augusta Blvd., Chicago. Total est. $1,000,000. Bids 7/18. CD 6/11—ENR 6/13.

Ill., Effingham—PLANT—The Norge Stove Plant c/o Borg Warner Corp., Effingham, brick, concrete stove plant addn., to C. J. Moritz, Inc., Effingham. Est. approx. $55,000.

Ill., Moline—WAREHOUSE—Eagle Super Market, 4 Ave., warehouse, 4 Ave. between 25 and 26 Sts., to Axel Christianson & Sons, Moline. Approx. $130,000.

La., Shreveport—WAREHOUSE, etc.—Salley Grocery Co., 409 Commerce Ave., central warehouse and office, 65 Market St., to W. C. Salley, Ouachita Bank Bldg., Monroe. $265,000. Awarded 7/13.

Me., Presque Isle—BAKERY—Aroostook Baking Co., Presque Isle, 1 story, brick, steel bakery, to H. W. Donning & Son Co., 210 State St. Est. $55,000.

Md., Baltimore—SERVICE—J. D. Case Co., Racine, Wis., 1 story, 42x120 ft., steel, brick service bldg., to Consolidated Engr. Co., 20 E. Franklin St., Baltimore, over $60,000.

Mass., Attleboro—FACTORY—Bay State Optical Co., 46 Pine St., 1 and 2 story, 62x500 ft., brick, rein-con., steel factory, Maynard St., to Temple & Crane, Inc., 80 Federal St., Boston. Est. $190,000. H. A. McClean & Sons, 44 Franklin St., Providence, R. I., engrs. CD 6/14—ENR 6/20.

Mich., Detroit—GRAIN ELEVATOR—International Milling Co., 323 E. Atwater Dr., rein.-con. grain elevator, to Feagles Constr. Co., Minneapolis, Minn. Est. $100,000.

Mich., Trenton—FACTORY—Cycleweld Div., Chrysler Corp., Trenton, brick, concrete, steel factory for welding plant, to O. W. Burke Co., 1032 Fisher Bldg., Detroit. Est. $150,000. CD 4/2—ENR 5/2.

Minn., Minneapolis — LABORATORY — General Mills, Inc., Chamber of Commerce Bldg., general contract 3 story, steel, tile walled products laboratory, next to laboratory, 2110 East Hennepin Ave., to A. Cederstrand Co., 966 Central Ave. Est. $300,000. McEnary & Krafft, 1110 McKnight Bldg., archts. CD 7/17.

Minn., Minneapolis—FACTORY, etc.—Good Foods, Inc., 301 N. 7 St., general contract 1 story, ell-shaped, 66x201 ft. and 48x115 ft. concrete, brick, tile factory and office bldg., in 5700 block 35 St., to H. N. Leighton Co., 716 S. 7 St., about $100,000. Magney, Tusler & Setter, 202 Foshay Tower, archts.

Minn., St. Paul—WAREHOUSE—Fisher Nut & Chocolate Co., 2327 Wycliff St., general contract brick, concrete warehouse, to J. S. Sweitzer & Son, 739 Pillsbury Ave. Est. $65,000. Slifer & Cone, 342 Endicott Bldg., archts.

Miss., Gulfport—PLANT—Sterling Drug Co., Inc., 170 Varick St., New York, N. Y., 2 story, face brick drug plant, to George P. Hopkins, Gulfport. Est. $600,000. Phelps & Barnum, 250 Park Ave., New York, N. Y., archt. CD 4/1—ENR 5/1.

Mo., Maplewood (St. Louis 17, P. O.)—FACTORY—A. S. Aloe Co., 19 and Olive Sts., St. Louis, Zone 3, rein.-con., brick, steel factory, 1801 S. Hanley Rd., to I. E. Millstone Constr. Co., 4343 Clayton Ave., St. Louis, Zone 10. Est. $350,000.

Mo., Moberly—PLANT—Seven-Up Bottling Co., 1120 Montrose Ave., St. Louis, Zone 4, 1 story, 50x83 ft., brick, concrete, soft drink bottling plant, to T. R. Bell, Moberly. Est. $55,000 with equip. E. H. Niemann, 3816 Shaw Ave., St. Louis 10, archt.

Mo., Monett—PLANT—Missouri Farmers Assn., W. T. Crighton, mgr., 555 W. Phelps St., Springfield, 2 story, bsmnt., 157x233 ft. monolithic concrete, glass block, structural steel milk processing plant, incl. steam turbines, air conditioning, etc., to W. W. Johnson, Phelps Grove Park, Springfield. Est. $300,000. Total est. approx. $1,000,000, incl. equip. CD 3/22—ENR 5/2.

Mo., North Kansas City—PLANT—Handcraft Mfg. Co., 3715 E. 24 St., mfg. plant, to Fogel Constr. Co., 310 Lathrop Bldg., Kansas City, approx. $250,000. J. F. Lauck, 6225 Brookside Blvd., Kansas City, Mo., archt.

Mo., North Kansas City—WAREHOUSE—Marsh Steel Corp., c/o Mr. Marsh, Armour Rd., general contract warehouse, to Winn-Senter Constr. Co., Railway Exchange Bldg., Kansas City, Mo. Est. $300,000. Archer-Cooper-Robinson, Commerce Trust Bldg., Kansas City, Mo., archts.

Mo., St. Louis—WAREHOUSE, etc.—Chevrolet St. Louis Div. General Motors Corp., 3809 N. Union Blvd., Zone 15, 1 story, 52x80 ft., brick, rein.-con. warehouse and office for automobile assembly plant, to G. L. Tarlton Contg. Co., 5505 Dale Ave., Zone 10. Est. $55,000 with equip. N. J. Stupp, 3800 Weber Rd., Zone 23, engr.

Mo., St. Louis—FACTORY—Lewis-Howe Co., 319 S. Fourth St., Zone 2, 4 story, 69x90 ft., brick, rein.-con. factory, 319 S. Fourth St., separate contracts, under supervision. Widmer Engr. Co., engr., 122 N. Seventh St., St. Louis. $150,000. (Correction location of project.) CD 7/16—ENR 7/18, under Miss., St. Louis.

Mo., St. Louis—PLANT—Sterling Aluminum Products Co., 2925 N. Market St., Zone 2, 1 and 2 story shop, warehouse and office bldg. addns., and altering existing bldg., 2925 N. Market St., to John Hill Constr. Co., 1228 Syndicate Trust Bldg., 915 Olive St., Zone 1. Est. $55,000 plus with equip. K. K. Ellis, 2925 N. Market St., engr. CD 3/29—ENR 4/11.

Mo., St. Louis—RAILROAD SHOPS, etc.—Terminal Railroad Assn. of St. Louis, 1800 Market St., Zone 3, 1 and 2 story, 60x65 ft., brick, concrete railroad shops bldg., rein.-con. fdn., 2145 Scott Ave., own forces. $55,000 plus with equip.

N. H., Tilton—MILL—Johns Manville Corp., 22 E. 40 St., New York, N. Y., design and construction brick paper mfg. mill, to H. A. Kulgian Co., 1518 Walnut St., Phila., Pa. Est. over $55,000.

N. J., Camden—PLANT—Camden Iron & Metal Co., 1500 S. 6 St., mfg. plant alterations, to R. G. Hoffer, 1520 Locust St., Phila., Pa., $55,000. Awarded 7/21.

N. J., Perth Amboy—WAREHOUSE—Flagstaff Foods, 536 Fayette St., warehouse addn., to John N. Wester, 320 Amboy Ave., Metuchen, over $55,000. Bids 5/29, awarded 7/15. CD 6/3—ENR 6/6.

N. Y., Buffalo—FACTORY—Niagara Machine & Tool Works, 683 Northland Ave., 1 story, 93x254 ft., structural steel, brick factory, forge and heat treating shop addn., to Shirley-Herman Co., Inc., 1807 Elmwood Ave. Over $100,000. CD 6/28—ENR 7/11.

N. C., Hendersonville—PLANT—Skyland Processing Co., Hendersonville, 2 story, 220x220 ft. food processing plant, to R. K. Stewart & Son, High Point. Est. $500,000. E. R. Stillwell, Hendersonville, archt.

N. C., Statesville—WAREHOUSE—J. C. Penney Co., Statesville, plans by R. L. Clemmer, Hickory, 1 story warehouse and distribution center, to Gilbert Engineering Co., Inc., Statesville. Est. $1,000,000. CD 5/28—ENR 6/13.

Ore., Portland—FREIGHT TERMINAL—West Coast Fast Freight, Inc., 1001 S.E. Water Ave., 2 story, bsmnt., 100x200 ft., concrete motor freight terminal, to Donald M. Drake Co., Lewis Bldg. Est. $80,000. CD 5/10.

Ore., Portland — PLANT — Western Waxed Paper Co., Pub. Serv. Bldg., 1 story, 155x240 ft. paper plant addn., to Reimers & Jolivette, Railway Exchange Bldg. Est $100,000. Bids 7/12. Whitehouse, Church, Newberry & Roehr, Builders Exchange Bldg., archts. CD 7/13.—ENR 7/20.

Pa., Easton—MAINTENANCE BLDG.—Binney & Smith Co., maintenance bldg., to H. E. Stoudt & Son, 1212 S. 5 St., Allentown, $130,000. Awarded 7/16. J. N. Hettel, 501 Copper St., Camden N. J. archt. CD 5/28—ENR 6/6.

Pa., Essington—CONDENSOR—Westinghouse Elect. Corp., Lester, Condensor Shop Bldg. D (reconversion), own forces. $167,600. L. C. Meckling, Mahoney Bldg., Pittsburgh, archt.

Pa., Icedale (P. O. Honey Brook)—SERVICE—Susquehanna Pipe Line Co., 1600 Walnut St., Phila., service bldg., to John Stapf, 3465 N. 6 St., Harrisburg. $60,000. Awarded 7/18. G. W. Pepper, 1600 Walnut St., Phila., archt. CD 6/27—ENR 7/4.

Pa., Lansdale—PLANT—Family Chef Foods, Inc., Lincoln Liberty Bldg., Phila., food processing plant, to Steele Pownall & Gebhardt, 1505 Race St., $55,000. Awarded 7/21.

Pa., Morrisville—PLANT—Warner Co., 219 N. Broad St., Phila., plant addns., to Jack S. Steele Co., Commercial Trust Bldg., Phila., over $55,000. Awarded 7/18.

Pa., North Wales—PLANT—Keller-Whilldin Pottery Co., North Wales, mfg. plant addn., to The Austin Co., 19 Rector St., New York, N. Y., over $55,000. Awarded 7/6.

Pa., Phila.—STORAGE—George B. Newton Coal Co., 53 St. and Baltimore Ave., storage bldg., to Lauter Constr. Co., 112 S. 16 St., over $55,000. CD 6/21—ENR 6/20.

Pa., Phila.—FACTORY—Jules Segel & Co., 1027 Callowhill St., factory, to J. P. McDevitt, 1061 Pratt St. $55,000. Awarded 7/3. L. J. Cowan, 1237 Market St., archt.

Pa., Phila.—SHOP—Phila. Transportation Co., Mitten Bldg., trolley shop, Frankfort Ave. and Bridge St., separate contracts. Over $55,000.

Pa., Phila.—TERMINAL—Phila. Transportation Co., Mitten Bldg., terminal bldg., Frankfort Ave., Orthodox and Arrott Sts., own forces. $350,000. CD 5/31—ENR 6/13.

Pa., Phila. — MANUFACTURING — Quaker City Iron Works, Tulip St. and Allegheny Ave., mfg. bldg., to Jack S. Steele Co., Commercial Trust Bldg., over $55,000. CD 4/11—ENR 4/18.

Pa., Phila.—PLANT—Soaber Co., 5815 Erdrick St., plant addn., to William F. Lotz, 4700 Frankford Ave., over $55,000. Awarded 7/22. G. Elmer Nuber, 4700 Frankford Ave., engr.

Pa., Pittsburgh—GARAGE, etc.—American Bus Lines Inc., 514 S. Wabash Ave., Chicago, Ill., 1 story, bsmnt., brick, steel, rein.-con., garage and shop, 25 and Charlotte Sts., to James Leck Co., 211 S. 11 St. Minneapolis, Minn. Est. $125,000.

Pa., Towanda—PLANT—E. I. du Pont de Nemours Co., Inc., 10 and Shirley Sts., Wilmington, Del., mfg. plant, to Rust Engr. Co., Clark Bldg., Pittsburgh, $275,000. Bids 7/5, awarded 7/18. CD 6/27—ENR 7/4.

Pa., West Conshohocken (Conshohocken P.O.)—PLANT—Phila. Electric Co., 900 Sansom St., Phila., plant addn., separate contracts. $55,000.

Pa., Wyncote—PLANT—Century Vault Co., 1150 E. Mermaid Lane, Wyndmoor, Chestnut Hill P.O., plant rehabilitation, separate contracts. Over $55,000. George F. Sook Co., Commercial Trust Bldg., Phila., archt.

S. C., Greenville—SERVICE—Greenville Auto Sales Co., Greenville, service bldg. with sales room, to Potter & Shackelford, Greenville. $90,000.

S. C., Greenville—PLANT—Pet Dairy Products Co., E. D. Cobb, mgr., 120x160 ft., steel plant. Owner builds. $150,000. CD 1/11—ENR 1/24.

Tenn., Humboldt—MILL—Wayne Knitting Mill, 641 Knitters Ave., Fort Wayne, Ind., brick, concrete, steel hosiery mill, to Daniel Constr. Co., 822 7 Ave. South, Birmingham, Ala. Est. $1,000,000. Lockwood Greene Engineers, Inc., 10 Rockefeller Plaza, New York, N. Y., archts.

Tex., Beaumont—PLANT—Beaumont Brick Co., brick mfg. plant, own forces. $75,000. Bids about 7/10. CD 7/8—ENR 7/11.

Tex., Corpus Christi—MILL, etc.—Hawn Sash & Door Co., Corpus Christi, planing mill and lumber yard, to A. E. Hinman, 229 Ohio St., approx. $110,000. CD 5/29—ENR 6/6, under CA.

Tex., Dallas — WAREHOUSE — Titche-Gittinger Co., Elm and St. Paul Sts., warehouse, to Cowdin Bros., 411 S. Haskell St., approx. $300,000. Grayson Gill, c/o Great National Life Bldg., superv. archt. CD 5/23—ENR 6/13.

Tex., Duncanville—MILL—Service Mills, Inc., Duncanville, 3 unit hosiery mfg. mill, force account. $58,000.

Tex., Fort Worth—PLANT—Texas-Pacific Ry. Co., R. J. Gammie, ch. engr., Texas & Pacific Bldg., cold storage plant to Andrews & Osborne, 3320 W. 7 St. Approx. $58,000. Awarded 7/23. CD 4/24—ENR 5/2.

Tex., Houston—TERMINAL—Humble Oil & Refining Co., Humble Bldg., gasoline and oil products terminal to O'Rourke Constr. Co., 4011 Koehler St. (PO Box 7557) Zone 7, $80,000.

Tex., Randado—PLANT—Sun Oil Co., Milam Bldg., San Antonio, pressure maintenance plant. Owner builds. $70,000. CD 3/4.

Tex., Robstown—COMPRESSOR STATION, etc.—Humble Oil & Refining Co., Humble Bldg., Houston, compressor station to utilize casinghead gas, pipe line. Owner builds. $140,000. CD 3/29.

Tex., San Antonio—PLANT—Apache Packing Co., 1500 Tampico St., meat packing plant expansion, imprvs, force account. $60,000. CD 3/14.

Tex., Waco—TERMINAL—Humble Oil & Refining Co., Humble Bldg., Houston, gasoline and oil products terminal to O'Rourke Constr. Co., 4011 Koehler St. (PO Box 7557), Houston, Zone 7, $70,000.

Va., Fredericksburg—PLANT—Sylvania Industrial Corp., Fredericksburg, mfg. plant addn. to Hughes Foulkrodt Co., 1505 Race St., Phila., Pa. $75,000. Awarded 7/6. The Ballinger Co., 105 S. 12 St., Phila., Pa., archt.

Wash., Seattle—GARAGE, etc.—Standard Oil of California, San Francisco, Calif., garage and service station 6 Ave. and Olive Way, to Sound Constr. & Engrg. Co., 1403 W. 45 St. Est. $300,000. McClelland & Osterman, Skinner Bldg., 5 and Union Sts., Seattle, Zone 1, archts. CD 5/17—ENR 5/30.

Wash., Seattle—WAREHOUSE—The Texas Co., 2555 13 Ave. S.W., 1 story, 110x180 ft., mill constr. warehouse, day labor. $160,000. CD 8/30—ENR 9/13.

Wash., Spokane — WAREHOUSE — Empire Cold Storage Co., N. 1227 Oak St., 4 story 60x72 ft., brick cold storage warehouse, to A. Sandall, 902 E. 5 St. Est. $60,000. H. Bertelsen, Empire State Bldg., archt.

W. Va., Bayard—PLANT—Davis Coal & Coke Co., Thomas, 300 ton coal cleaning plant, structural steel, corrugated iron, to Fairmont Machinery Co., Fairmount. Est. $500,000 with equip.

W. Va., Morgantown—COAL TIPPLE, etc. —Consolidation Coal Co., Fairmont, 1 story, 2,500 ton coal tipple and washing plant, concrete, corrugated steel, steel frame, to Fairmont Machinery Co., Fairmont. Est. $800,000.

W. Va., Newell—MIXING—Laughlin Homer China Co., Newell, 2 story, bsmnt., brick, tile, steel, mixing bldg. Owner builds. $75,000. Owner taking bids 150 tons steel.

Wis., Burlington — SALES - SERVICE GARAGE—Cunningham Buick Co., Burlington, 1 story, 78x132 ft., steel, brick, concrete block garage, to Scherrer Const. Co., New Munster. M. F. Pfaller, 8525 Ravenswood Circle, Wauwatosa, Zone 13, archt. CD 7/16—ENR 7/25.

Wis., Kenosha — FACTORY — Dynamatic Corp., 3307 14 Ave., 1 story, steel, concrete, brick factory addn., to Lindermann Const. Co., 4708 5 Ave. Est. $300,000. G. S. Rider & Co., Terminal Tower, Cleveland, O., engr. CD 6/28—ENR 7/11.

Wis., Milwaukee — FOUNDRY — International Harvester Co., 1714 W. Bruce St., Zone 4, sand tower for foundry addn., to Permanent Const. Co., 4100 W. 3 St., Zone 12. Est. $95,000. E. N. Potter, c/o owner, engr. CD 3/20—ENR 3/28.

INDUSTRIAL BUILDINGS (Contracts, Awarded, Cont'd.)

Wis., Phillips — WAREHOUSE—Flambeau Milling Co., Phillips, 3 story, 70x118 ft., rein.-con., concrete block warehouse, concrete fdn., day labor. R. N. LeVee & Assoc., Appleton, archts.

Wis., Shawano—STORAGE—E. Juedes Draying Co., Shawano, and 2 story, 85x115 ft., and 40x60 ft. wing rein.-con., brick storage bldg. addn., to C. Feltz, Shawano. CD 2/5—ENR 2/21.

Alta., Edmonton—POULTRY—Alberta Poultry Producers, Ltd., 10-139 82 Ave., wholesale poultry bldg. to E. B. Killips, 11646 82 Ave., approx. **$60,000.** J. Martland, 108 Agency Bldg., archt.

Alta., Edmonton—WAREHOUSE—Canadian Fairbanks Morse Co., Ltd., St. Antoine St., Montreal, Que., warehouse, to J. R. McIntyre, 11431-100 Ave., approx. **$100,000.** CD 5/9—ENR 5/30.

B. C., Trail—MINE TUNNEL—Consolidated Mining & Smelting Co., Ltd., 215 W. St. James St., Montreal, Que., tunnel at Sullivan Mine, to Bennett & White Constr. Co., Ltd., Standard Bank Bldg., Vancouver. Est. over **$100,000.** CD 2/28/45—ENR 3/15/45.

B. C., Vancouver—PLANT—Canadian Bemis Bag Co., 900 Parker St., design and construction rein.-con. exten. to provide increased plant, storage and other facilities, to Dominion Constr. Co., Ltd., 150 W. 1 Ave., **$65,000.** Awarded 7/22.

N. B., Edmundston—GARAGE—Edmunston Motors, Ltd., Rice St. and Canada Rd., 94x154 ft. concrete garage, to J. N. Flood & Sons, Saint John. Est. **$65,000.**

Ont., Chatham—GRAIN ELEVATOR—St. Clair Grain & Feed Co., Inc., 19 E. Wellington St., grain elevator, to T. C. Warwick & Sons, Blenheim, **$65,000.**

Ont., Fort Frances—WAREHOUSE—Minnesota & Ontario Paper Co., warehouse, scalers office, guard house, grind room addn., etc., to P. A. Lawrence Co., Ltd., Church & Central Sts., **$83,100.** T. B. Harrison, c/o owner, engr. CD 7/17/45—ENR 7/19/45.

Ont., London—PLANT—Coleman Packing Co., D. Bieman, owner, 1 St., 3 story, bsmnt., 20x60 ft. and 20x30 ft., brick, steel plant addn., to Hyatt Bros. Constr. Co., 290 Egerton St. Est. **$60,000.** Awarded 7/23. CD 2/6—ENR 2/21.

Ont., Niagara Falls — GARAGE — Canada Coach Lines, Ltd., 1785 River Rd., garage, Park St., to Smith Bros. Constr. Co., Ltd., 1740 Ellen St., approx. **$55,000.** Prack & Prack, 36 James St. S., Hamilton, archts. CD 12/20—ENR 1/10/46.

Ont., Niagara Falls—PLANT—Niagara Wire Weaving Co., Ltd., 1400 Robinson St., 2 story, 85x116 ft., brick, steel, plant exten., to Smith Bros. Constr. Co., Ltd., 1740 Ellen St., approx. **$85,000.**

Ont., Ottawa — WAREHOUSE — National Drug Co. Ltd., 336 Wellington St., 2 story warehouse, Catherine St. between Bank and O'connor Sts., to Ross Meagher Limited, 9 Echo Dr. **$92,000.** CD 12/31/45—ENR 1/1/46.

Ont., Toronto—FACTORY—Flash Fasteners of Canada, Ltd., 474 Bathurst St., factory, Lake Shore Rd., Etobicoke, to Gatehouse Brothers, Ltd., 86 Adelaide St. E., about **$100,000.** N. A. Armstrong, 19 Melinda St. archt.

Que., Montreal—FACTORY—Cordon Bleu Ltd., 5865 Papineau Ave., canning factory, to Concrete Builders, Inc., 7860 St. Denis St. **$65,000.** CD 7/26/45—ENR 8/9/45.

Que., Montreal—FACTORY—R. Dore, 31 W. Notre Dame St., metal spinning factory, to R. Matte, 4369 Colbrooke Ave. Est. **$55,000.** E. A. Doucet, 2245 E. Sherbrooke St., archt.

Que., Montreal—GARAGE—Jarry & Brother, 6460 Blvd. St. Lawrence, garage, to J. R. Loyer, 8505 St. Denis St. **$150,000.** CD 3/14—ENR 5/2.

Que., Montreal—FACTORY—Master Craft Clothes, Ltd., 6508 St. Hubert St., factory, to Kohan & Nathanson, 848 Dollard St. Est. **$60,000.** H. E. Greenspoon, 1434 W. St. Catherine St., archt.

Que., Montreal—DAIRY—St. Laurent Farm Ltd., 6768 Garnier St., dairy addn., to G. Boileau, 5432 Third Ave. Est. **$85,000.** A. Gravel, 513 E. Rachel St., archt.

Que., Ville LaSalle — PLANT — Standard Brands, Ltd., 1010 St. Catherine St. W., Montreal, dried yeast mfg. plant, Dollard Ave., to Anglin-Norcross, Quebec, Ltd., 892 Sherbrooke St. W., Montreal, approx. **$75,000.** S. Comber & Son, 1502 St. Catherine St. W., Montreal, archts.

UNCLASSIFIED

Construction Reports received since this section went to press will be found in Last Minute Construction Reports.

BIDS ASKED

Bids Asked August 6

N. Y., Brooklyn—PLAYGROUND PAVING, etc.—Comr. Parks at Office Dpt. of Parks, The Arsenal Bldg., Central Park, 64 St. and 5 Ave., New York, Zone 21, paving, electrical and miscellaneous work, in Red Hook Park and playground, at Verona, King, Richards and Dwight Sts.; at playground at Albany and Foster Aves.; playground at Fulton, Sackman, and Truxton Sts. and Van Sinderen Ave., Contr. B-77-146. Plans deposit $10.

†Pa., Avoca — AIRPORT IMPROVEMENTS —Civil Aeronautics Admin., 385 Madison Ave., New York, 17, N. Y., airport improvs.

Bids Asked August 7

P.E.I., Montague—WHARF—Dpt. P. Wks., Ottawa, Ont., wharf reconstruction, $30,000. Plans deposit $20. R. Blais, c/o owners, engr. CD 4/5—ENR 4/18.

Bids Asked August 8

Minn., Ely — AIRPORT—Bd. Comrs. St. Louis Co., Duluth, W. H. Borgen, aud., imprv. airport. $40,000. G. H. Diebler, Court House, Duluth, co. hy. engr. CD 1/4/45—ENR 2/8/45.

Bids Asked August 9

O., Cleveland Heights—GRADING, etc.—Cleveland Heights City School Dist., 1749 Lee Rd., grading, sewer, drainage work, fencing, plumbing, seeding and concrete work for grading and drainage for Hosford Athletic Field, Cedar and Lee Rds., Osborn Engineering Co., 7016 Euclid Ave., Cleveland, engr.

Tex., Nacogdoches — STEAM TUNNEL — Stephan F. Austin, State Teachers College, steam tunnel and steam lines running to 3 bldg. $40,000. Plans deposit $15. S. Simons, Tyler, archt. CD 7/12—ENR 7/18.

Bids Asked About August 27

†South Dakota—ACCESS RAILROAD—U. S. Eng., 1709 Jackson St., Omaha, Neb., first section, access railroad to Fort Randall dam site, Charles Mix Co.

Bids Asked August 29

Ill., Chicago—SUBWAY IMPRVS.—City, Subways & Super highways, 20 N. Wacker Dr., Dearborn St., Subway Contr. D-8, station tube section in tunnel, crossover, mezzanine station, etc. Plans deposit $25.

Bids Asked August 30

Florida — TRANSMISSION LINES—Glades Electric Co-operative, Moore Haven, exten. power transmission lines, Highland Co.

Bids Asked

Tex., San Antonio—STADIUM, etc.—Harlandale Ind. School Dist., c/o C. D. Foster, Huff Ave., stadium and steel bleachers with concrete footing cyclone fencing. **$40,000.** Phelps & Dewees & Simmons, 1515 Maj. Bldg., consult. engrs. CD 11/15/45.

W. Va., Wheeling — HANGAR — Wheeling Seaplane Base, Inc., P. O. Box 341, 1 story, 105 x 216 ft., brick, concrete block, steel frame, hangar. $75,000. C. C. Smith & Sons, Fidelity Bldg., archts.

SOON LETS CONTRACT

Iowa — ELECTRIC SERVICE TRANSMISSION LINES—Southeast Iowa Co-operative Electric Assn., Mount Pleasant, soon lets contract 158.233 mi. transmission lines, Henry Co. Approx. $160,000. Stanley Engr. Co., Muscatine, engr. CD 11/1/45—ENR 12/13/45.

Texas—RURAL ELECTRIC LINES—Upshur Co. Electric Co-operative, c/o Mrs. Delte Scales, mgr., Gilmer, soon lets contract, 225 mi. rural electric lines, Upshur Co. Bids 7/15 rejected. Freese & Nichols, 407 Danciger Bldg., Fort Worth, engrs. CD 6/27—ENR 7/4.

LOW BIDDERS

Calif., Oceanside—PIER—City, City Hall, July 17, repairing, exten. pier, from Case Constr. Co., 2100 Wilmington-San Pedro Rd., San Pedro. **$220,070.** CD 6/20—ENR 6/27.

New Jersey — ORNAMENTAL HIGHWAY LIGHTING—S. Miller, Jr., comr. State Hy. Dpt., Trenton, July 22, highway lighting sys., Rte. 25, Sect. 32 A. Essex and Union Counties, from A. Neri, Inc., 614 Clinton St., Hoboken. **$129,356.** CD 7/1—ENR 7/11.

★**O., Toledo**—AIRPORT IMPROVEMENTS—City, J. W. Jewhurst, service dir., City Hall, July 16, airport imprvs., administration bldg., from H. J. Suhrbier, 1611 Bway., **$308,130** *** grading, paving, installing drainage, water and sanitary sewerage sys., from Peirce Constr. Co., 334 W. Bancroft St., **$424,734** *** moving east hangar and removal of grange bldg. and power substation from E. W. LaPlante Constr. Co., 2325 E. 46 St., Indianapolis, Ind., **$90,685.** Est. $400,000. CD 6/6—ENR 6/13.

Ont., Sault Ste. Marie—ARENA—City, G. H. Tolley, clk., arena, from J. J. Fitzpatrick & Sons, 127 Church Ct., Sault Ste. Marie. **$253,480.** Est. $350,000. CD 1/14—ENR 3/7, under Public Bldgs.

CONTRACTS AWARDED

†Ala., Montgomery—RUNWAY—U. S. Eng., 2301 Grant St., Mobile 7, restoration of runway at Maxwell Field, to Smith Engrg. & Constr. Co., West Pensacola, Fla. **$91,344.**

†Calif., San Diego—STREET LIGHTING EXTENSION—Yards & Docks Annex, Navy Dpt., Arlington, Va., street lighting exten., Marine Base, NOY 13717, to California Electric Works, 424 8 Ave. **$95,300.**

†Calif., Tiburon—QUAYWALL REPAIRS—Yards & Docks Annex, Navy Dpt., Arlington, Va., quaywall repairs, Naval Net Depot, NOY 13957, to Healy Tibbits Bldg. Co., 1190 Evans Ave., San Francisco. **$480,000.**

†Fla., Banana River—RUNWAY—Yards & Docks Annex, Navy Dpt., Arlington, Va., runway exten., lighting, etc., Naval Air Station, NOY 13874, to Brinson Constr. Co., 1st National Bank Bldg., Tampa, Zone 2. **$229,975.**

†Fla., Elgin Field—SPRINKLER WATER SYSTEM—U. S. Eng., 2301 Grant St., Mobile 7, Ala., sprinkler water sys. for hangar, to Paul Smith Co., 1612 S. Monroe Ave., Tallahassee. **$50,743.**

†Fla., Fort Lauderdale — AIR STATION HOUSING, etc.—Yards & Docks Annex, Navy Dpt., Arlington, Va., permanent housing, 4 units MOQ and 10 MEMQ, Naval Air Station, NOY 13971, to Fred Howland, Inc., Postal Bldg., Miami. **$210,500.**

†Fla., Pensacola — IMPRV. RUNWAYS—Yards & Docks Annex, Navy Dpt., Arlington, Va., surfacing, sealing runways, taxiways, Chevalier Field, to Smith Engrs. & Constr. Co., West Pensacola. **$159,427.** CD 6/12.

★**Ill., Chicago** — HANGAR — Trans-World Airlines, 39 S. LaSalle Ave., double concrete hangar, 270 ft. spans, at airport, to Corbetta Constr. Co., 220 E. 42 St., New York 17, N. Y. Est. **$2,000,000.** Amman & Whitney, 111 8 Ave., New York 11, N. Y., engrs.

†Ill., Great Lakes—AUTOMATIC SPRINKLER — Yards & Docks Annex, Navy Dpt., Arlington, Va., automatic sprinklers, Naval Hospital, NOY 13862, to Automatic Sprinkler Corp. of America, 201 N. Well St., Chicago. **$140,258.**

Ind., Whiting—RIVER CROSSINGS—Standard Oil Co. of Indiana, Whiting, main river crossings on pipeline from Whiting Refinery north and east, to H. C. Price Co., Bartlesville, Okla. Approx. **$475,000.**

†Md., Bainbridge—SPRINKLERS—Yards & Docks Annex, Navy Dpt., Arlington, Va., sprinklers, U. S. Naval Hospital, NOY 12925, to Glove Automatic Sprinkler Co., 250 Park Ave., New York, Zone 17, N. Y. **$68,110.**

Man., Selkirk—WHARF—Dpt. P. Wks., Ottawa, Ont., reconstructing wharf, to Nelson River Const. Co. Ltd., 607 Union Trust Bldg., Winnipeg, about **$100,000.** Bids 6/13. R. Blais, c/o owner, engr. CD 6/5—ENR 6/6.

Mo., St. Louis—RADIO STATION—Radio Station KSD, c/o Pulitzer Publishing Co., Post Dispatch Bldg., 12 and Olive Sts., complete equip. for broadcasting of television and frequency modulation and for transmission of higher fidelity standard sound equip., incl television tower, top of Post-Dispatch Annex, Olive St. east of 12 St., to Radio Corp of America, 30 Rockefeller Plaza, New York, N. Y. Est. over **$50,000.** CD 8/25/44—ENR 9/7/44.

†N. J., Earle—FIRE HOUSE ON PIER, etc.—Yards & Docks Annex, Navy Dpt., Arlington, Va., fire house on pier, constructing barracks and altering subsistence bldg., and bachelor officers quarters, Naval Ammunition Depot, NOY 13100, to J. Rich Steers, Inc., 17 Battery Pl., New York, N. Y. **$106,900.**

†N. J., Earle—LOADING PIER—Yards & Docks Annex, Navy Dpt., Arlington, Va., repairing ammunition loading pier, Naval Ammunition Depot, NOY 13837, to Spearin, Preston & Burrows, Inc., 50 Church St., New York, N. Y. **$114,600.** CD 6/20.

†N. J., Earle — RAIL REPACEMENTS — Yards & Docks Annex, Navy Dpt., Arlington, Va., rail replacements, Naval Ammunition Depot, NOY 13426, to Thomas H. Reynolds Corp., 98 Park Pl., New York, N. Y. **$210,000.** CD 6/5.

†N. M., White Sands—MOTOR TEST AREA—U. S. Eng., 4 and Gold Sts., Albuquerque, motor test area, to R. E. McKee, P. O. Box 562, El Paso, Tex. **$346,000.**

†N. C., Charlotte—FENCE—Yards & Docks Annex, Navy Dpt., Arlington, Va., June 27, fence at ammunition depot, Spec. 18016, to V. P. Loftis, Builders Bldg. **$50,000.**

O., Cleveland — CREEK INCLOSURE — City, City Hall, Big Creek inclosure from W. 118 to W. 128 Sts., to Dominic Nero Constr. Co., 12202 Superior Ave. **$154,869.** Awarded 7/10.

Pa., Phila. — PIER RECONVERSION — United Fruit Co., Pier 3, North, reconverting Pier 9, to C. Christenson & Son, 921 Bergen Ave., Jersey City, N. J., over **$60,000.** Awarded 7/6.

†Pa., Phila.—SHIPYARD SEWAGE FACILITIES—Yards & Docks Annex, Navy Dpt., Arlington, Va., sewage disposal facilities Naval Shipyard, to Conduit & Foundation Corp., 770 S. Schuylkill Ave. **$486,003.** Bids 6/21. Albright & Friel, Inc., 1520 Locust St., engrs. CD 6/19.

★**Texas**—PIPELINE—Stanolind Pipe Line Co., Fair Bldg., Ft. Worth, 60 mi. 16 in. crude oil pipeline exten. to near Odessa. Ector own forces. **$575,000.** CD 4/15—ENR 5/16.

Tex., Dumas — GAS LINES—Panhandle Eastern Pipe Line Co., Stinnett, natural gas pipelines. Owner builds. **$92,000.** CD 2/21—ENR 3/7.

LAST MINUTE CONSTRUCTION REPORTS

WATER SUPPLY

Additional earlier Construction Reports will be found in the regular section.

CONTRACTS AWARDED

O., South Amherst—Village, distr. sys., to Christopher & Co., 643 Green Rd., **$69,667***** meters, to Pittsburgh Equitable Meter Co., 400 N. Lexington Ave., Pittsburgh, Pa., **$3,040** ***tank, to Chicago Bridge Co., Guildhall Bldg., Cleveland, **$18,280.** Grand total $90,987. Est. $105,000. Bids 6/15. CD 6/5—ENR 11/29.

SEWERS, WASTE DISPOSAL

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked August 6

D. C., Wash.—District Comrs., combined sewerage sys., vicinity First and C Sts., N.E.

Bids Asked August 9

N. Y., New Rochelle—Dpt. P. Wks., New Rochelle, drains, laterals, various locations. Extended date. Haven & Emerson, 233 Broadway, New York, Zone 7, engrs. CD 6/28—ENR 7/4.

LOW BIDDERS

★**Calif., Beverly Hills**—City, City Hall, rejected bids July 23, 60x90 ft., rein.-con. incinerator, and 120 ft. rein.-con. or brick stack, 3 and Foothill Sts. L. B. **$693,000.** CD 6/12—ENR 6/20.

BRIDGES

Additional earlier Construction Reports will be found in the regular section.

LOW BIDDERS

★**Okla., Jenks**—Clerk Tulsa Co., Tulsa, rejected bids July 8, bridge over Arkansas River. L. B. **$489,222.** Est. $546,000 CD 7/1.

STREETS AND ROADS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

★**Ohio**—State Hy. Dpt., Columbus, asphaltic concrete resurfacing 1.527 mi. S.H. 43, Hamilton Co., $36,400; grading, drainage structures, bituminous material and relocation concrete slab bridge over Wheeling & Lake Erie R.R. on S.H. 844, Wayne Co.; grading, drainage structures, concrete slab exten. to bridges over Salt Creek, widening, asphaltic concrete resurfacing 6.238 mi. S.H. 364, Jackson Co., $142,400; grading, drainage structures, steel bridge over Mad River, concrete paving 0.508 mi. S.H. 196, Clarke Co.; grading, drainage, structures, steel bridge over Maumee River, concrete paving 0.427 mi. S.H. 59 and 53, Lucas and Wood Counties; grading, drainage structures, concrete and asphaltic concrete, paving concrete slab bridge over S.H. 168, U. S. 33, 4.107 mi. road, Logan Co.; grading, drainage, widening asphaltic concrete paving 0.155 mi. S.H. 5 and 504, $30,460; 0.427 mi. S.H. 7, $33,130, both Scioto Co.; asphaltic concrete paving 4.27 mi. S.H. 15, Geauga Co., $80,100; 1.028 mi. S.H. 431 and 503 Putnam Co., $33,570; 1.051 mi. S.H. 757, Morgan Co., $18,620; 0.123 mi. S.H. 127, and slab bridge over Dug Run, Allen Co.; asphaltic concrete widening and resurfacing, concrete slab bridge over Thrasher Ditch, S.H. 425, Paulding Co.; waterbound macadam paving 4.488 mi. C.H. 286, Union Co.; bituminous surfacing 24.04 mi. S.H. 966, 271, 485 and 914, Seneca Co., $12,321; 17.04 mi. S.H. 875 and 491, Putnam and Van Vert Co., $34,533; 36.06 mi. S.H. 897, 277, 917, 280, 22, 281 and 839, Ottawa, Sandusky and Seneca Counties, $39,615; 18.2 mi. S.H. 394, 629 and 777, Meigs Co., $32,977; 21.6 mi. S.H. 20, 697, 570, 537, 59 and 51, Lucas Co., $11,279; 12.42 mi. S.H. 455 and 764, Huron Co., $36,966; 22.65 mi. S.H. 370, 376, 70, 413, 547, 564 and 341, Harrison and Tuscarawas Counties, $23,973; 16.15 mi. S.H. 536, 79, 872, 722 and 71, Stark and Summit Counties, $60,025; 16.43 mi. S.H. 648, 460 and 74, Portage Co., $64,792; 25.68 mi. S.H. 575, 356, 710 and 707, Knox, Licking and Perry Counties, $52,390; 26.4 mi. S.H. 395, 504, 261 and 665, Jackson, Pike and Scioto Counties, $52,379; 35.3 mi. S.H. 341, 23, 676 and 145, Holmes Co., $40,742; 14.14 mi. S.H. 484 and 346, Guernsey and Muskingum Counties, $40,025; 50.73 mi. S.H. 20, 301, 980, 311, 581, 946, 307A and 303, Fulton and Williams Counties, $48,068; 70.45 mi. S.H. 236, 714 658, 924, 277, 739, 10, 29, 590 and 188, Fayette, Madison, Pickaway and Union Counties, $49,525; 18.29 mi. S.H. 359, 718 and 461, Fairfield and Licking Counties, $41,515; 25.68 mi. S.H. 885, 466, 327, 475, 33, 446, 16 and 35, Cuyahoga, Geauga and Lake Counties, $43,241; 6.82 mi. S.H. 834 and 82, Columbiana and Mahoning Counties, $47,778; 43.1 mi. S.H. 295, 103, 102, 370, and 379, Belmont, Harrison and Jefferson Counties, $82,180; 21.42 mi. S.H. 643, 689, 97 and 754, Ashland and Lorain Counties, $45,760; 26.1 mi. S.H. 152, 15, 474, 150, 18 and 921, Ashtabula, Mahoning and Trumbull Counties, $48,685; erosion control on S.H. 884 and 360, Hocking Co., $22,000.

LOW BIDDERS

★**Montana**—State Hy. Comn., Helena, July 24, imprv. 6 mi. Belton East Hy., Flathead Co., from Union Constr. Co., 11 Ave. and 11 St. N., Great Falls, **$730,941** est. $665,000. Rejected bids July 24, imprv. 13.8 mi. Plains-Elmo Rd., Sanders Co. **$39,000.** CD 7/1—ENR 7/11.

★**Pennsylvania**—State Hy. Dpt., Harrisburg, July 26, imprv. 28,809 ft. Berks Co., from J. Robert Bazley, Inc., Pottsville, **$970,204*** 1.235 ft. Pike Co., from H. A. Depue & Mahlon Livingood, Tamaqua, **$43,152***10,117 ft. Montgomery Co., from James McGraw Co., Commerce Tower Bldg., Phila. **$456,728***17,527 ft. Montgomery Co., from Tri-County Constr. Co., High School Rd. and Harrison Ave., Elkins Park, Phila. **$254,541***2,350 ft. Mifflin Co., from Reed & Kuhn, Elysburg, **$129,698***State Hys. L.R. 130, 131, 132, 133, 180, 225, 599, and 23064. Appl. 1242 and 1249, Delaware Co., from Frank Mark Co., Castr. Ave., and Wingohocking St., Phila. **$152,967***3.246 ft. Delaware Co., from Acchione Contracting Co., 1607 McKean St., Phila. **$309,278***20,344 ft. Luzerne Co., from C. F. Goeringer Constr. Co. Wilkes-Barre, **$248,849***11,241 ft. Cambria Co., from Ryan Bros., Inc., Clearfield, **$187,138** ***1,284 ft. Bucks Co., from Lehigh Valley Constr. Co., Bethlehem, **$120,850***5,328 ft. Cambria Co., from Ferguson & Edmonsdon Co., Keystone Bldg., Pittsburgh. **$291,250.** CD 7/2—ENR 7/11.

★**Oklahoma**—State Hy. Dpt., Oklahoma City, concrete and rock asphalt paving 5.202 mi. and 5.056 mi. Canadian Co., to J. A. Briscoe, Stillwater, **$267,476** and **$259,695** respectively, est. $259,156 and $265,274 respectively***7.589 mi. Bryan Co. to Moran & Buckner, Muskogee, **$235,463,** est. $245,247***2.337 mi. Oklahoma Co. to Ottinger Bros., 3801 N. May St., Oklahoma City, **$261,581,** est. $247,378***double bituminous on gravel surfacing 4.873 mi. Delaware Co., to Plains Const. Co., Tradesmens Bldg., Oklahoma City, **$74,298,** est. $82,420. Grand total $1,098,513. Awarded 7/20.

EARTHWORK, WATERWAYS

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked August 7

Ont., Crosslake (P. O. Palmerston)—R. A. Jamieson, Mississippi River Imprvts. Co. Ltd., Almont, dam constr. $50,000. Plans deposit $20. N. B. MacRostie, 193 Spark St., Ottawa, engr.

Bids Asked August 8

†**Kentucky**—U. S. Eng., P. O. Box 97, Memphis 1, Tenn., approx. 50,000 squares articulated concrete mattress to be cast on casting field located along left bank of the Mississippi River at Hickman, Spec. Serial No. 40-041-47-12, Serial 10897, File 70/138/1.

Bids Asked August 9

N. Y., New Rochelle—Dpt. P. Wks., City Hall, drainage construction, Sects. 1 & 1A.

Bids Asked on or About August 23

†**Missouri**—U. S. Eng., Gay Bldg., Bway at 3 St., Little Rock, Ark., 12,750 cu. yd. compacted levee embankment, right bank of Black River, approx. 2 to approx. 18 mi. southeast of Poplar Bluff, Butler County Drainage Dist. 7, Butler Co.

†**New York**—U. S. Eng., 120 Wall St., New York, Zone 5, dredging 112,100 cu. yd. material, except ledgerock in Newton Creek, English Kills.

Bids Asked August 29

†**Idaho**—Bureau Reclamation, Dpt. Interior, Denver, Colo., furnishing, del. f.o.b. cars at shipping point or f.o.b. cars at Cascade, one 12 ft. diam. welded-plate-steel penstock with outlet branch connections for installation in outlet works at Cascade Dam, Payette Div., Boise Proj. Spec. 1451. W. R. Young, ch. engr.

LOW BIDDERS

†**Illinois**—U. S. Eng., U. S. Court House and Custom House, St. Louis, Mo., July 23, approx. 105,000 cu. yd. earth in repair levees, and exten. 12 in. drainage structure in Scott Co. Drainage and Levee Dist., Scott Co., Serial 23-065-47-3, from Joseph L. Pohl, Nevada, Mo. **$37,974.** Est. $32,804. CD 7/15—ENR 7/18.

PUBLIC BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

CONTRACTS AWARDED

★**N. Y., Buffalo**—State Housing Comn., City, Albany and Buffalo, converting Pub. School 14, into 16 apartments, Franklin St., Pub. School 32, into 15 apartments, Cedar St., 369 units, each 24x48 ft., Fillmore and Kensington Aves., Clayton and Simon Sts., to Siegfried Constr. Co., Inc., 6 N. Pearl St. **$1,338,000.** W. C. Lurkey, 997 Main St., archt. F. B. Burgess, City Hall, Pub. Wks. Dpt., engr.

★**N. C., Chapel Hill**—University of North Carolina, W. D. Carmichael, Jr., controller, Chapel Hill, Dormitories A, B and C, to McDevitt & Street Co., Builders Bldg. and F. N. Thompson, Pineville Rd., all Charlotte. **$999,118.** Bids 6/25. CD 7/2—ENR 7/11, under LB.

COMMERCIAL BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

CONTRACTS AWARDED

★**Conn., Greenwich**—Stamford Building Co., Inc., 65 Broad St., Stamford, 150 homes, Havemeyer Pl. Owner builds. **$1,400,000.** CD 3/18—ENR 3/21.

INDUSTRIAL BUILDINGS

Additional earlier Construction Reports will be found in the regular section.

LOW BIDDERS

★**O., Cleveland** — BUS GARAGE, etc. — Cleveland Transit System, 1404 E. 9 St., group bus garage bldgs., incl. 350 x 360 ft. garage, 60 x 350 ft. shop, 40 x 60 ft. office, 90 x 100 ft. wash and inspection bldg., 35 x 60 ft. service bldg., all brick, steel, concrete, 1 and 2 story, from Schirmer Peterson Co., 6830 Beaver St. **$1,884,000.** Est. $1,500,000. A. C. Wolf, Swetland Bldg., archt. CD 7/6/45—ENR 7/19/45.

CONTRACTS AWARDED

★**Calif., East Los Angeles (br. Los Angeles)**—MILL—Globe Mills, 907 E. 3 St., flour mill, 6,000,000 lb. daily capacity, feed mill, 300 tons daily capacity, 1,250,000 bu. grain elevator at Goodrich Blvd. and Ferguson Dr. Owner builds. Over **$1,000,000.** CD 3/22/45—ENR 4/5/45.

★**Calif., South Gate**—PAPER MILL—U. S. Gypsum Co., 816 W. 5 St., Los Angeles, 1 story, 369 x 440 ft., steel, concrete paper mill, 8430 Quartz Ave., to McNeil Constr. Co., 5860 Avalon Blvd., Los Angeles, approx. **$2,000,000.**

★**Tenn., Humboldt**—MILL—Wayne Knitting Mills, T. Robson, vice pres., Humboldt, hosiery mill, to Daniel Constr. Co., Greenville, S. C. **$1,000,000.**

UNCLASSIFIED

Additional earlier Construction Reports will be found in the regular section.

BIDS ASKED

Bids Asked September 5

†**New Mexico and Texas**—TRANSMISSION LINE—Bureau Reclamation, Dpt. Interior, Denver, Colo., 115 kilowatt transmission line, Proj., New Mexico and Texas, Spec. 1424. Extended date. CD 7/10—ENR 7/18.

LOW BIDDERS

Mo., Columbia—REFRIGERATION EQUIPMENT, etc.—Dpt. Agriculture, Div. Purchase, Sales & Traffic, Wash. 25, D. C., received no bids June 11, furnishing, installing refrigeration and air conditioning equipment in the Psychroenergetic laboratory at Missouri Agricultural Experiment Station. CD 5/27—ENR 5/30.

†**New York**—TOWER DISMANTLING, etc.—U. S. Eng., 960 Ellicott Sq. Bldg., Buffalo, Zone 3, July 19, dismantling Niagara Weir Tail Tower and removing causeway, Niagara River, from McLain Const. Corp., 1209 Hertel Ave., Buffalo. **$54,600.** CD 7/9.

CONTRACTS AWARDED

★†**Wash., Bremerton**—SERVICE AND FIRE PROTECTION — Yards & Docks Annex, Navy Dpt., Arlington, Va., furnishing service and fire protection for facilities and inactive vessels at Puget Sound Navy Yard, NOY 13594, to Kuney Johnson Co., 235 9 St. N., Seattle, Zone 9, **$2,100,000.** CD 7/3—ENR 7/11, under LB.

Proposal Advertisements see pp. 28 to 32

OFFICIAL PROPOSALS

FEDERAL WORKS AGENCY
Bureau of Community Facilities
Washington 25, D. C.

Sealed proposals will be received by Rufe B. Newman, Jr., Deputy Commissioner for Construction, Bureau of Community Facilities, Federal Works Agency, Room 2143 Federal Works Building, Washington, D. C., until 2:00 o'clock P. M. Eastern Standard Time, on August 27, 1946, for the construction of the following work at Charlotte Amalie, St. Thomas and Christiansted and Frederiksted, St. Croix, Virgin Islands, comprising approximately the following quantities:

PROJECT NO. 2, SANITATION AND FIRE PROTECTION FACILITIES, CHARLOTTE AMALIE, ST. THOMAS

Remove 13,000 Lin. ft. 4" to 8" existing C. I. pipe
Install 67,000 Lin. ft. 2¼" to 10" C. I. pipe
110 Fire hydrants
134 Gate-valves 2½" to 10"
3 Pumps—350 to 750 gpm and main line meters and appurtenances
1 New pumping station
Two 200,000 gal. reinforced concrete storage reservoirs
35,000 Lin. ft. sanitary sewers and laterals
335 Manholes
3,000 Cu. yds. rock excavation
50 Public toilets with necessary appurtenances

PROJECT NO. 3, INTERCEPTING SEWER, CHARLOTTE AMALIE, ST. THOMAS

8,000 Lin. ft. interceptor and outfall sewers
1,200 Lin. ft. submerged C. I. sewer
Sewage pumping station
Dual drive sewage pumping equipment
35 Manholes with necessary appurtenances

PROJECT NO. 19, SANITATION AND FIRE PROTECTION FACILITIES, CHRISTIANSTED, ST. CROIX

Remove 550 Lin. ft. 6" C. I. salt water pipe
Install 15,300 Lin. ft. 2¼" to 10" C. I. pipe and appurtenances
34 Fire hydrants
24" Gate-valves 2" to 8"
1—750 Gpm and 1—500 gpm salt water pump
Salt water pumping station
300,000 gallon concrete salt water reservoir
17,000 Lin. ft. 6" to 12" V. C. sewer pipe 0'-16' cut
1,600 Lin. ft. 6" to 8" C. I. pressure pipe
130 Manholes
Sewage pumping stations and equipment
Cut and replace 11,000 lin. ft. pavement

FREDERIKSTED, ST. CROIX

Remove 2,775 lin. ft. 3" to 6" C. I. pipe
Install 12,000 lin. ft. 2¼" to 10" C. I. pipe and appurtenances
16 Fire hydrants and 29 gate-valves 2" to 8"
1—500 gpm salt water pump
Alterations to existing salt water pump station
14,400 Lin. ft. 6" to 12" V. C. sewer pipe 0'-12' cut
63 Manholes
Sewage pumping station and equipment
Cut and replace 6,200 lin. ft. pavement

At which time and place the proposals will be publicly opened and read aloud. Bids received after closing time of bid opening will be returned unopened.

Plans and specifications and other proposed contract documents are open for public inspection at the District Engineer's Office, Old Marine Barracks, Charlotte Amalie, Virgin Islands; the District Engineer's Office, 501 Banco Popular Building, San Juan, Puerto Rico; Public Works Office, Christiansted, St. Croix, Virgin Islands, and Room 2143 Federal Works Building, Washington, D. C.

A set of such documents may be procured from R. L. Kenan and Associates, Consulting Engineers, Bell Building, Montgomery, Alabama, upon deposit of $50.00, all of which will be refunded to bona fide bidders upon the return of plans, in good condition, within seven days from date of bid opening.

To parties who procure plans and specifications upon payment of $50.00 and who do not submit a bid, $40.00 will be refunded *provided same are returned within seven days from date of bid opening.* No refund will be made for return after this time.

Each proposal must be accompanied by a bid security in an amount of not less than 5 per cent of the total bid.

The successful bidder will be required to furnish a performance bond in an amount equal to 100 per cent of the contract price, such bond to cover full performance of the contract and payment for labor and materials.

No proposal may be withdrawn after the scheduled closing time for receipt of bids for at least 30 days.

The Government reserves the right to reject any and all proposals and to waive informalities with respect thereto.

GEORGE H. FIELD
Commissioner
(158)

Bids: August 19 (214)

Miscellaneous Construction

CITY OF NORTH TONAWANDA, NEW YORK

Concrete Work, Piping and Structural Changes for Installation of New Pumping Equipment

July 22, 1946

SEALED PROPOSALS, will be received until 12:00 o'clock noon, D.S.T., August 19, 1946 for Contract No. 3—Concrete Work, Piping and Structural Changes for New Pumping Equipment installations.

Plans and Specifications may be obtained from the City Engineer or The Chester Engineer's, 210 E. Parkway, Pittsburgh, Pa., upon deposit of $10.00 for each set.

Albert W. Spencer
City Engineer

U. S. Government

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, Washington, D. C., July 15, 1946. Sealed bids (Specifications No. 1436) will be received at the office of the Bureau of Reclamation, 7½ North Second Street, Yakima, Washington, until 10 a.m., August 12, 1946, and then publicly opened, for furnishing labor and materials and performing all work for the *construction of earthwork, pipelines, and structures, lateral distribution system, Pump Area No. 15, Roza Division, Yakima Project,* Washington. The work is situated approximately 6 miles north of Prosser, Washington. The principal items of work and the estimated quantities involved are as follows: 32,000 cubic yards of excavation, common, for laterals; 300 cubic yards of excavation, rock, for laterals; 5,000 station cubic yards of overhaul; Compacting 1,200 cubic yards of embankments; 16,000 cubic yards of excavation, common, for pipe trenches; 500 cubic yards of excavation, rock, for pipe trenches; 16,000 cubic yards of backfill of pipe trenches; 3,000 cubic yards of excavation, common, for structures; 100 cubic yards of excavation, rock, for structures; 3,000 cubic yards of backfill about structures; Compacting 1,200 cubic yards of backfill about structures; Placing 300 cubic yards of earth lining in laterals; 450 square yards of dry-rock paving; 500 cubic yards of concrete in structures; Furnishing and handling 1,000 barrels of cement; Placing 30,000 pounds of reinforcement bars; Erecting 70 M feet b.m. of timber in structures; Installing 8,000 pounds of gates and miscellaneous metalwork; Furnishing and laying 14,000 linear feet of 6-inch diameter standard concrete irrigation pipe; Furnishing and laying 29,700 linear feet of 8-inch diameter standard concrete irrigation pipe; Furnishing and laying 12,700 linear feet of 10-inch diameter standard concrete irrigation pipe; Furnishing and laying 3,375 linear feet of 12-inch diameter standard concrete irrigation pipe; Furnishing and laying 330 linear feet of 15-inch diameter standard concrete irrigation pipe; Furnishing and laying 310 linear feet of 6-inch diameter extra-strength concrete irrigation pipe; Furnishing and laying 1,450 linear feet of 8-inch diameter extra-strength concrete irrigation pipe; Furnishing and laying 900 linear feet of 10-inch diameter extra-strength concrete irrigation pipe; Furnishing and laying 710 linear feet of 12-inch diameter extra-strength concrete irrigation pipe; Furnishing and laying 110 linear feet of 15-inch diameter extra-strength concrete irrigation pipe; Furnishing and laying 360 linear feet of 18-inch diameter extra-strength concrete irrigation pipe; Furnishing and laying 120 linear feet of 24-inch diameter extra-strength concrete irrigation pipe; Erecting 130 linear feet of No. 36 metal flume; and Erecting 125 linear feet of No. 96 metal flume. This invitation for bids does not cover the purchase of materials which are to be furnished by the Government. Materials to be furnished by the contractor and those furnished by the Government are described in the specifications which will be a part of the contract. The work shall be commenced within thirty (30) calendar days after date of receipt of notice to proceed and shall be completed within two hundred and forty (240) calendar days from the date of receipt of such notice. Guarantee will be required with each bid in an amount not less than 10 percent of the amount of the bid: Provided, That guarantee in excess of $2,000,000 will not be required. Where the total amount payable by the terms of the contract is not more than $1,000,000, a performance bond will be required in the sum of one-half of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $1,000,000 and not more than $5,000,000, the performance bond shall be in the sum of 40 percent of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $5,000,000 and not more than $10,000,000, the performance bond shall be in the sum of 30 percent of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $10,000,000 and not more than $25,000,000, the performance bond shall be in the sum of 20 percent of the total amount payable by the terms of the contract. Where the total amount payable by the terms of the contract is more than $25,000,000, the performance bond shall be in the sum of $5,000,000. Whenever the total amount payable by the terms of the contract shall be more than $2,000 but not more than $1,000,000, the payment bond shall be in the sum of one-half of the total amount payable by the terms of the contract. Whenever the total amount payable by the terms of the contract shall be more than $1,000,000 and not more than $5,000,000, the payment bond shall be in the sum of 40 percent of the total amount payable by the terms of the contract. Whenever the total amount payable by the terms of the contract shall be more than $5,000,000, the payment bond shall be in the sum of $2,500,000. Liquidated damages for delay will be fifty dollars ($50) per day. Partial payments will be made monthly. (See article 16 of the contract.) No charge to prospective bidders for copies of the specifications and drawings; to others $2.00 per copy, not returnable. For particulars, address the Bureau of Reclamation, 7½ N. 2nd St., Yakima, Washington; Denver 2, Colorado; or Washington 25, D. C. (218)

Michael W. Straus,
Commissioner.

BIDS FOR REPAIRING JETTY: War Dept., Corps of Engineers, 120 Wall Street, New York 5, N. Y.—Sealed bids will be received in Room 601, until 11:00 A.M., E.D.S.T., 14 August 1946 and then publicly opened, for furnishing and placing 2,450 tons of rip rap stone for repairing East Jetty at East Rockaway Inlet, New York; further information on application. (216)

Read the Official

Proposal Columns of

ENGINEERING NEWS-RECORD

This Week and Every Week

OFFICIAL PROPOSALS

Bids: August 20 (212)

State Road Work

SEALED PROPOSALS will be received by the President of the Levy Court of New Castle County, Room 133, Public Building, Wilmington, Delaware until 11:00 A.M. Daylight Saving Time on August 20, 1946, and at that time and place publicly opened for contracts involving the following approximate quantities:

CONTRACT SD-5
Liftwood
New Castle County

625 C. Y. Excavation
10 C. Y. Rock Excavation
2775 T. Waterbound Macadam
590 T. Bituminous Concrete
180 L. F. 12" R. C. Pipe
123 L. F. 15" R. C. Pipe
60 L. F. 18" R. C. Pipe
185 S. Y. Topsoil
0.40 A. Seeding
4900 S. Y. Sodding

CONTRACT SD-6
Woodcrest
New Castle County

3100 C. Y. Excavation
7225 T. Waterbound Macadam
1525 T. Bituminous Concrete
10 C. Y. Cement Concrete Masonry
300 Lb. Reinforcing Steel
132 L. F. 12" R. C. Pipe
237 L. F. 15" R. C. Pipe
385 S. Y. 3" Cem. Conc. Gutter
40 S. Y. 5" Cem. Conc. Gutter
105 L. F. Cem. Conc. Curb
775 S. F. 4" Cem. Conc. Sidewalk
9 Ea. Catch Basins
3 Ea. Catch Basin Adjustments
800 Lb. Castings
5200 S. Y. Topsoil
1.10 A. Seeding
3225 S. Y. Sodding
144 L. F. Relaying 12" R. C. Pipe
69 L. F. Relaying 15" R. C. Pipe
50 L. F. 10" Cast Iron Pipe

CONTRACT SD-8
Beechwold & Forest Hills Park
New Castle County

0.06 A. Clearing
0.06 A. Grubbing
600 C. Y. Excavation
5 C. Y. Rock Excavation
1600 T. Waterbound Macadam
340 T. Bituminous Concrete Surface
51 L. F. 12" R. C. Pipe
9 L. F. 18" R. C. Pipe
1870 S. Y. Topsoil
0.6 A. Seeding
94 S. Y. Plain Rubble Gutter
135 L. F. 4" Vit. Tile Underdrain

Attention is called to the Special Provisions in the proposal, specifications and contract agreement.

Performance of contract shall commence within ten (10) days after execution of the contract and be completed as specified.

Monthly payments will be made for ninety (90) per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the County Engineer.

Each proposal must be accompanied by a surety bond, certified check, or money to the amount of at least ten (10) per centum of the total amount of the proposal.

The envelope containing the proposal must be marked "Suburban Development Contract No. ———."

The contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Complete sets of plans and specifications may be obtained after July 17, 1946 upon receipt of two dollars ($2.00) for each contract, which amount will not be refunded.

Make checks payable to the Levy Court of New Castle County.

LEVY COURT OF
NEW CASTLE COUNTY
BY: John I. Cahalan, County Engineer

OFFICIAL PROPOSALS

Bids: Aug. 7 (206)

State Highway Work

STATE DEPARTMENT OF PUBLIC WORKS, BUREAU OF CONTRACTS & ACCOUNTS, ALBANY, N. Y.

Sealed proposals will be received by Henry A. Cohen, Director, Bureau of Contracts & Accounts, 14th Floor, The Governor Alfred E. Smith State Office Building, Albany, N. Y., until ten-thirty o'clock A.M., advanced standard time, which is nine-thirty o'clock A.M., eastern standard time, on WEDNESDAY, August 7, 1946, for the construction and reconstruction of highway projects in the following counties:

County	Deposit for plans	Bid deposit	Type	Miles	Dept. estimate
CONSTRUCTION					
Bronx	$20	$45,000	Conc. Rigid Frame 2 spans 63' each Grading and Structure	0.26	$816,000
Bronx	10	30,000	Thru Girder 95' Reconst. Adjacent Deck Girder spans Structure Alterations	0.20	527,000
Nassau & Suffolk	5	15,000	Conc. 8" 22' & Var. Misc. Work	0.66	238,000
Queens	20	100,000	Reinf. Conc. Pav. Misc. Work Conc. Rigid Frame 1 span 58'; Conc. Rigid Frame 2 spans 44' & 39'; Conc. Rigid Frame 1 span 58'	0.56	1,789,000
RECONSTRUCTION					
*Allegany	5	8,000	I-Beam 2 @ 71' Conc. 9" thk. 24' & 34'	0.32	139,000
Erie	5	10,000	Deck Plate Girder 3 spans total 236' Conc. 9" thk. 24' & 28' wdt.	0.40	200,000
Greene	5	6,000	Conc. 9" thk. 22'-30'	0.45	104,000
Nassau	20	40,000	Viaduct Substructure 2144' Grading & Structures	1.12	740,000
*Steuben	5	7,000	4 span Beam Bridge 2 @ 78', 55', & 49'	0.07	132,000
Suffolk	5	7,000	Bit. Mac. M. M. Opt.	1.28	123,000
Wyoming	5	800	Bit. Mac. M. M. Opt.	....	14,000

*These projects involve the use of Alpha Composite Construction which is patented and the royalty is:
Allegany $199.50
Steuben 111.30

Maps, plans, specifications, and estimates may be obtained at the office of the Department of Public Works, Bureau of Contracts & Accounts, Albany, N. Y., and at the office of the District Engineers in whose district the roads are located. The names and addresses of the District Engineers will be furnished on request, and may be seen at the office of the State Department of Public Works, State Office Building, Room 898, Worth & Center Streets, New York City.

The deposit for Plans and Proposal Forms for each contract containing 1 to 15 sheets is $5.00; 16 to 30 sheets, $10.00; over 30 sheets, $20.00. A refund will be made in full to bidders for return of one set, in good condition, within 30 days of award, or rejection of bids; refund for all other sets in good condition, similar period, will be 50% of deposit.

Special attention of bidders is called to "General Information for Bidders" in the proposal, specifications, and contract agreement, and to the special provisions applying to projects financed with federal funds.

Proposal for each contract must be submitted in a separate sealed envelope with the name and number of the contract plainly endorsed on the outside of the envelope. Each proposal must be accompanied by cash, draft or certified check payable to the order of "State of New York, Commissioner of Taxation & Finance" for the sum as specified in the advertisement and the proposal. The retention and disposal of the bidding check, the execution of the contract and bonds shall conform to the provisions of the Highway Law, as set forth in "Instructions to Bidders."

When optional types are permitted on contracts with federal funds, bidders must state in the space provided in the proposal the exact designation of the optional type upon which the proposal is predicated.

OFFICIAL PROPOSALS

Minimum Wage Rate per hour for above work shall be as follows:

County	Skilled Labor	Intermediate Grade Labor	Unskilled Labor
Allegany	$0.80	$0.80	$0.80
Bronx	1.20	1.20	1.20
Erie	1.00	1.00	1.00
Greene	0.85	0.85	0.85
Nassau	1.20	1.20	1.20
Queens	1.20	1.20	1.20
Steuben	0.80	0.80	0.80
Suffold P. C. 46-107	1.00	1.00	1.00
O. P. 46-1	1.20	1.20	1.20
Wyoming	1.00	1.00	1.00

UNLESS SHOWN OTHERWISE IN THE ITEMIZED PROPOSAL FOR EACH PROJECT.

The right is reserved to reject any or all bids.

CHAS. H. SELLS
SUPT. OF PUBLIC WORKS

Bids: Aug. 20 (203)

Garbage and Refuse Incinerator

NOTICE TO CONTRACTORS
GARBAGE AND REFUSE INCINERATOR
CITY OF PITTSFIELD
MASSACHUSETTS

Separate sealed bids for (1) General Construction for Garbage and Refuse Incinerator Plant, (2) Garbage and Refuse Incinerators, (3) Electrical, (4) Plumbing, (5) Heating and Ventilating, for the City of Pittsfield, Mass. will be received at the office of the Superintendent of Public Buildings, City Hall, Pittsfield, Massachusetts until 7:30 o'clock p. m. Eastern Daylight Saving Time on the 20th day of August, 1946, and then be publicly opened and read aloud in the Council Chambers in the City Hall.

Separate sealed bids from sub-contractors furnishing labor or materials on portions of work involved in said general contracts will be received at the office of the Superintendent of Public Buildings, City Hall, Pittsfield, Mass. until 3:00 o'clock P. M., Eastern Daylight Saving Time on the 16th day of August, 1946. They will be opened after the selection of the general contractor in accordance with the provisions of G. L. (Ter. Ed.) Ch. 149, Sect. 44c.

So far as relevant, all matters of proposals and bidding are governed by the provisions of G. L. (Ter. Ed.) Ch. 149, Sections 44A-44C, inclusive.

The Information for Bidders, Form of Bid, Form of Contract, Plans, Specifications and Form of Performance Bond may be examined at the office of the Superintendent of Public Buildings and at the office of Keis & Holroyd, Engineers, 257 Broadway, Troy, New York. Copies thereof may be obtained at said office of Keis & Holroyd upon payment of $25.00 for each set. Any bidder, upon returning such set promptly and in good condition, will be refunded his payment, and any non-bidder upon so returning such set will be refunded $20.00.

The Incinerator Commission of the City of Pittsfield, Mass. reserves the right, so far as allowed by law, to waive any informalities in or to reject any or all bids by either contractor or subcontractor, or to accept any bid.

Each bidder must deposit with his bid security in an amount of not less than five per centum (5%) of the base bid in the form and subject to the conditions provided in the Information for Bidders.

Attention of bidders is particularly called to the requirements as the conditions of employment to be observed and minimum wage rates to be paid under the contract.

The work will be let in five separate contracts as follows:

Contract No. 1—General Construction

Contract No. 2—Garbage and Refuse Incinerators

Contract No. 3—Electrical work and equipment

Contract No. 4—Plumbing

Contract No. 5—Heating and Ventilating

No bidder may withdraw his bid within 30 days after the actual date of the opening thereof.

INCINERATOR COMMISSION
PITTSFIELD, MASSACHUSETTS
By: EDWARD J. TIERNEY, CHAIRMAN
Dated: July 2, 1946

OFFICIAL PROPOSALS

Bids: August 15 (213)

Bridge and Approaches

STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT
STATE HOUSE ANNEX
CONCORD, NEW HAMPSHIRE

Sealed proposals will be received at this office until 2.00 o'clock P.M. Daylight Saving Time on the 15th day of August 1946, for the construction of the Hampton Harbor Bridge and approaches. Bidders may submit proposals for constructing the substructure, the superstructure and the approaches separately or for all three.

F 318 (1)
Hampton
1198 ft.—13 Span Cont. Deck Girder Bridge with 1 bascule span
0.359 miles Reinf. Concrete Approaches
Certified Check $10,000.00 (Substructure)
Certified Check $10,000.00 (Superstructure)
Certified Check $3,500.00 (Approaches)
Plans $5.00 for each contract.

The contract documents, plans and specifications may be examined at said office, and copies thereof may be obtained from the State Highway Commissioner upon payment of the amounts stated above, not returnable. Plans may be seen at the office of the "Nerba," 20 Kilby Street, Boston, Mass. Bids shall be submitted on the prescribed form furnished by the Commissioner. The State Highway Commissioner reserves the right to waive any informalities in or to reject any or all bids. Each bidder must deposit with his bid certified check in the amount listed above, payable to the "Treasurer, State of New Hampshire," as security for the execution of the contract. Bid bonds will not be accepted. No bidder may withdraw his bid within thirty (30) days after the actual date of the opening thereof.

The minimum wages paid to all labor employed on this project shall be $1.20, $0.90 and $0.75 per hour respectively for skilled, intermediate grade, and unskilled labor. A schedule of the minimum wages for all labor classifications as determined by the N. H. Commissioner of Labor in accordance with Chapter 214 of the Revised Laws is attached to the proposal. All unskilled labor shall be hired from lists prepared by the Reemployment Director designated in the proposal.

F. E. EVERETT,
July 23, 1946 Commissioner.

Bids: August 13 (215)

Construction of Streets

Sealed proposals will be received by the Board of Public Works at its office in the City Hall until 10:00 A.M. Eastern Daylight Saving Time on Tuesday, August 13, 1946 for the Construction of the following streets.

Highland Avenue from Castle Street to West North Street

North Morrell Street from Washington Street to end.

South Morrell from Washington Street to end.

Deposit required $2500.00.

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the City Superintendent in Geneva. Plans will be furnished upon payment of $5.00 by cash, or check payable to Walter Foreman, City Treasurer. No refund will be made for plans, specifications or proposal forms.

Proposal must be submitted in sealed envelope, plainly endorsed on the outside of the envelope.

Each proposal must be accompanied by cash, draft or certified check payable to City Treasurer of Geneva for the sum as specified in the advertisement for proposals and the proposal itself.

Local wage rate per hour for above work must be paid.

The right is reserved to reject any or all bids.

The work proposed herein must be completed in ninety (90) calendar days from the date of award.

H. M. BOLTON
Superintendent

Bids: August 20 (217)

Construction of Streets

NOTICE TO CONTRACTORS

Sealed proposals will be received by the Board of Public Works at its office in the City Hall until 10:00 A. M. Eastern Daylight Saving Time on Tuesday, August 20, 1946, for the construction of the following street:

A section of Geneva Forge Avenue between Pre-Emption Street and Clark Street. And the widening and surface treatment of Pre-Emption Street from North Street to the N. Y. C. R. R. Tracks.

Deposit required, $1,200.00

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the City Superintendent in Geneva. Plans will be furnished upon payment of $5.00 by cash, or check payable to Walter Foreman, City Treasurer. No refund will be made for plans, specifications or proposal forms.

Proposal must be submitted in sealed envelope, plainly endorsed on the outside of the enevelope.

Each proposal must be accompanied by cash, draft or certified check payable to City Treasurer of Geneva for the sum as specified in the advertisement for proposals and the proposal itself.

Local wage rate per hour for above work must be paid.

The right is reserved to reject any or all bids.

The work proposed herein must be completed in sixty (60) calendar days from the date of award.

H. M. BOLTON,
Superintendent.

Bids: Aug. 7 (200)

State Highway Work

STATE OF NEW JERSEY
STATE HIGHWAY DEPARTMENT
TRENTON

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commissioner for:

ROUTE 25, SECTION 1B
Construction of Route 25, Section 1B, from Yardville Relocation to Robbinsville (Completion of Divided Highway), Mercer County, Federal Project F-94 (4), length 3.038 miles.

Estimated:	
	Roadway Items
25,000 cu. yds.	Roadway Excavation-Earth
6,000 sq. yds.	Pavement Excavation
30,800 sq. yds.	Bit. Conc. Pavement, Type FA-BC-1
8,000 sq. yds.	Bit. Conc. Pavement, Type A or T
47,900 sq. yds.	10" Rein. Conc. Pavement Surface
	Bridge Items
1,041 cu. yds.	Concrete in Structures
31,540 lbs.	Reinforcement Steel in Structures

Bids for the above will be received at the office of the State Highway Department, Room 102, State House Annex, Trenton, N. J., on Wednesday, August 7, 1946, at ten A. M., EASTERN STANDARD TIME, *(eleven o'clock, DAYLIGHT SAVING TIME)*, and will be opened and read immediately thereafter.

The receipt and opening of bids is subject to the proper qualification of the bidder in accordance with the provisions of the prequalification law and the regulations adopted by the State Highway Commissioner. Bidders must also submit a revised financial statement and statement of plant and equipment with their bid.

Note: The proposed project is a "Federal Aid Project" authorized by the provisions of Title 27 of the Revised Statutes of New Jersey and supplements, and by Sections 2, 3 and 4, P. S. 521, 78th Congress, and is to be performed in accordance with the special provisions and requirements of the Federal Works Agency, Public Roads Administration, as outlined in the specifications, which provisions require that labor be employed from lists furnished by the United States Employment Service, State Armory, Trenton, N. J. The attention of bidders is directed to the special provisions covering subletting or assigning the contract and to the use of domestic materials. The minimum wage paid to all unskilled labor employed on this contract shall be 65¢ per hour. The minimum wage paid to all intermediate grade of labor employed on this contract shall be 75¢ per hour. The minimum wage paid to all skilled labor employed on this contract shall be $1.25 per hour.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, N. J., and may be inspected by prospective bidders during office hours. Plans will be furnished on a deposit of Ten Dollars ($10.00) for each set of plans upon application to A. Lee Grover, Chief Clerk, State Highway Department, Room 102, State House Annex, Trenton, N. J. Bids must be made upon the standard proposal forms in the manner designated in the standard State Highway specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten percent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and must be delivered at the above place on or before the hour named. Copies of the standard proposal forms and special addressed envelopes will be furnished on application. Bids not enclosed in sealed special addressed envelopes will be considered informal and will not be opened. The right is reserved to reject any or all bids.

Signed: Spencer Miller, Jr.
State Highway Commissioner

Bids: Aug. 6 (205)

Water Works

Office of City Purchasing Agent
Nashville, Tennessee.

Sealed bids will be received by the Board of Administration of the City of Nashville, Tennessee, at the office of the City Clerk until 9:00 A.M. Central Standard Time or 10:00 A.M. Nashville Daylight Saving Time on Tuesday, August 6, 1946, for Water Works Intake Line, Intake Pier and Access Bridge, according to plans, profiles, and specifications, which are on file in the Office of the Superintendent and Chief Engineer of the Waterworks Department, Room 201 City Hall, Nashville, Tennessee, and also the Office of The Chester Engineers, 210 East Park Way, N.S., Pittsburgh, Pennsylvania. Immediately after closing time for receipt of bids, they will be publicly opened and read aloud in Council Chamber, City Hall.

The Successful bidder will be required to furnish a satisfactory performance bond.

Copies of all contract documents including Proposal Form, Contract, Plans and Specifications, and Instructions to Bidders may be obtained at the office of the Chester Engineers by depositing Twenty-five Dollars ($25.00) for each set of documents so obtained, the amount of which will be refunded to each actual bidder, and Fifteen ($15.00) Dollars will be returned to all others who return plans and specifications in good condition within ten (10) days after opening of bids.

The Board of Administration reserves the right to reject any and all bids and to waive any informalities in bidding.

A certified check or bank draft payable to the City of Nashville, or a satisfactory bid bond, executed by the bidder and a surety company authorized to transact business in the State of Tennessee, in an amount equal to Five (5) percent of the bid shall be submitted with each bid.

No bid may be withdrawn after the same has been filed with the City Clerk.

CITY OF NASHVILLE, TENNESSEE
E. B. SMITH
Purchasing Agent.

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ENGINEERING NEWS-RECORD
New York City

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Discount of 10% if one payment is made in advance for four consecutive insertions of undisplayed ads (not including proposals.)

Copy for new advertisements received until 10 A. M. Friday for following Thursday's issue

POSITIONS VACANT

SUPERINTENDENT WANTED by a Philadelphia established Contractor capable of assuming full responsibility from bidding to completion on water and sewage disposal projects. Give references, experience and salary desired. P-718, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

SUPERINTENDENT: Wanted by a Philadelphia established Contractor capable of assuming complete responsibility on State Highway Projects. Give references, experience and salary desired. P-717, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

SUPERINTENDENT FOR complete charge of alteration and repair of high class residential work. Must understand all types of construction and be able to estimate cost, order material and supervise work. Requires thorough experience and good appearance. Permanent position in high class residential community. Central New Jersey. P-739, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

WANTED AN executive Secretary for Contractors' Association. Must be experienced in membership, labor relations and legislative work. Apply in writing to H. B. Alexander, Box 653, Harrisburg, Penn. giving full details as to experience, also salary expected.

CHIEF ACCOUNTANT: experienced on Government Cost-Plus a Fixed-Fee contactors—wanted by Contractor for War Department CPFF Contract in Virginia. P-719, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

INSPECTOR AND Assistant structural engineer to handle field inspection and assist with the design of a number of locks and dams for the control of tidal water. Work will be performed with a minimum of supervision working from plans, specifications, verbal instructions and rough free hand sketches depending on whether field or office work is being done. In reply give age, education, experience, references, marital status, salary desired, snapshot photograph, sample of drafting and other data available. Reasonably permanent, normal chance for advancement and vacation with pay. John C. Stephens, Water Control Engineer, 1306 Court House Miami 32, Florida

WANTED, PAINT Superintendent-for a Concrete Products Plant. Must be an aggressive producer, good organizer, and be able to install, maintain and operate all kind of equipment. Millwright experience desirable. Excellent opportunity in a young firm with a big expansion program just starting. P-773, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ESTIMATOR—FOR Main Office of large contractor specializing in heavy engineering construction. Must have previous similar experience. Permanent position with high salary and opportunity to become chief estimator. Location Middle West. State education, experience, and initial salary requirement. P-772, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CIVIL ENGINEER to teach surveying, highways, and sanitary courses. Must have experience in addition to degree, preferably masters. P-766, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

GRADING SUPERINTENDENT or Foreman for highway and heavy grading projects in Indiana and Michigan. Permanent position for capable man. State experience, salary and reference. P-770, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CONCRETE PAVING Superintendent or Foreman for highway projects in Indiana and Michigan. Permanent position for capable man. State experience, salary, and references. P-771, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

POSITIONS VACANT

GENERAL MANAGER for CPFF Government Contracts in Western Pacific Island. Work will last one year or longer. Man must have had previous successful experience, for this position, in a managerial capacity handling large construction contracts. Answer giving reference and previous experience and other pertinent data. P-780, Engineering News-Record, 68 Post Street, San Francisco 4, Cal.

WANTED: Engineer, experienced in sewage plant operation, for position of superintendent of activated sludge plant in midwest city of 20,000. Make application letter complete including salary requirements. P-781, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

ENGINEER-ESTIMATOR—Experienced dock-building, waterfront structures. P-769, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

LARGE MUNICIPAL Corporation in the Maryland suburbs of Washington, D. C., wants designers and draftsmen familiar with preparation of water and sewer construction and pumping station plans. Good salaries, permanent positions, retirement feature. State salary desired, experience and qualifications in first letter. Address to Harry R. Hall, Chief Engineer, Washington Suburban Sanitary Commission, Hyattsville, Maryland.

POSITIONS WANTED

CONSTRUCTION FOREMAN: Twenty-five years experience sewers, foundations, water lines, grading roads, concrete. PW-702, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER: (Cornell), young, married, experience design of structural steel and reinforced concrete design. Will travel immediately. PW-753, Engineering News-Record, 330 W. 42nd St. ,New York 18, N. Y.

CIVIL ENGINEER: 23 years shop and design drawings stress analysis bridges, buildings, pressure vessels and furnaces available 30 days 500 month. PW-728, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

WATER & Sewage treatment Engineer, 26 years waste treatment, sewage and trade waste disposal, steam plant and executive experience, desires position with city or industrial organization. Capable of assuming full responsibility for water, sewage and trade waste, problems and plant operation. P-W 751, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER: 24 years varied experience in heavy construction with consultants and contractors desires responsible position. Licensed in New York. PW-750, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

BUILDING CONSTRUCTION: Superintendent or general superintendent, 25 years experience, thoroughly familiar with all types of building construction. Desires to locate in Florida. References. PW-747, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CIVIL ENGINEER: age 37, University of Michigan graduate. Desires position of responsibility and future with consulting, construction, or allied manufacturing firm. Broad progressive experience in design, construction, and administration of hydraulic projects and structures. Ex-Naval Officer (Seabees), successful leader, married, excellent references. Prefer western location. PW-746, Engineering News-Record, 68 Post Street, San Francisco 4, Cal.

POSITIONS WANTED

CONSTRUCTION SUPERINTENDENT: Available September 1st. Desirous of making a change. 12 years with one Midwestern Contractor, 20 years experience on industrial, plants, commercial buildings, well paint systems, pumpcrete and concrete plant layout. Handling complete projects. Following of good foreman. Age 46. Schooling equiv. to college. PW-730, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

BRIDGE STRUCTURAL Engineer (Cornell) over 30 years experience: design, construction, maintenance, foundations, superstructures, timber, steel, concrete; railway highway structures, bridges, drawspans, coal tipples, bins, piers, industrial buildings. Twenty years with railroads; work done with company forces. Box 43, Swarthmore, Penna.

ARCHITECTURAL DRAFTSMAN desires position near Southwest states. 18 years experience on complete working drawings for restaurants, residences, schools and public buildings. Available November 1st. PW-684, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ENGINEER, C. E. P. E., 28 years structural design. Industrial plants, mill buildings, RR shops, power plants. Expert stress analyst. 8 years charge of design. Desires permanent position of responsibility. PW-768, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CONSTRUCTION: FORMER Contractor, 20 years sewer, concrete, tunnel experience. Wishes to connect with growing concern as partner or manager. PW-767, Engineering News-Record 330 W. 42nd St., New York 18, N. Y.

FORMER ASSISTANT Professor of Civil Engineering seeks promising connection with a leading engineering school. Subjects taught: Structures, reinforced concrete, mechanics, hydraulics, calculas. Has had 8 years of teaching experience and 15 years of practical experience on the design, checking and supervision of bridges, dams, factories, buildings, foundations, etc. Statically indeterminate structures a speciality, including wind bracing of tall buildings. Has had about 20 original papers or articles published, and has now manuscripts on "Structures" ready for publishing. During the past 4 years engaged in important work for U.S.A. involving design and checking of structures needed at various Army and Navy bases. PW-765, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER, Age 34, available 1 September 1946 for permanent connection in Southern or Southwestern State. Eight years varied experience in highway field surveys, design, estimating, drafting and Public Works Officer on Navy Airport. Excellent references. PW-764, Engineering News-Records, 330 W. 42nd St., New York 18, N. Y.

REGISTERED PROFESSIONAL ENGINEER. State of Md., married, age 43, desires position in executive capacity with reputable construction firm. 20 years experience in construction of roads, bridges, and industrial buildings, in supervisory capacity. 4 years Corps of Engineers. PW-775, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

SUPERINTENDENT OR General Foreman of Cement finishes. 2 years C. E. background, age 36, 17 years experience in heavy construction. Familiar with all types of cement finishing. Industrial floors, dams, etc. Family man, sober and dependable. Prefer West Coast. PW-763, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

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POSITIONS WANTED
(Continued from page 31)

PROJECT MANAGER Available September 1st foreign or domestic work. Capable organizing, equipping and operating all types and phases of construction enterprise. Highest references. PW-762, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER, 26: Graduated 1942 with High Honors in Engineering. 39 months Army Engineers. Overseas construction. Some drafting and material expediting. Desire work with designer, consultant or contractors in New England or upstate N. Y. Field work preferred. Sub-professional work not considered. Job must pay well and be permanent. PW-774, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CONSTRUCTION ENGINEER: or sales, young, 7 years experience highway. T.N.T. Plant, steel mill, railroad construction, piping layout and supervision. Your consideration appreciated. PW-761, Engineering News-Record, 68 Post Street, San Francisco 4, Cal.

CIVIL ENGINEER (Lehigh)—Age 38, married—Bridge Construction, Supervisor M/W Railroad, Supervised Industrial Expansion Program $8,000,000.00, Manufacturing, Water Treatment, Waste Disposal, Present-Executive to President of Corporation. Ill health of daughter, climate, necessitates change. PW-760, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CONSTRUCTION SUPERINTENDENT experienced heavy and building construction. Subways, sewers, sheeting, timboring, excavation, foundations, piledriving, bridges, earth moving, fills, commercial and industrial buildings, underpinning and concrete construction. Able organizer . Excellent following. Am not civil engineer, architect or estimator. Know men methods and machinery. Available now. PW-756, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ASSISTING INDUSTRIAL Laboratory technician, young women over 3½ years experience. Major interest metallurgy. College reg. drafting, statistics, clerical knowledge administrative ability. PW-782, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER: graduate; 36 years experience; design; construction; highway bridge; industrial; water supply; hydro-electric. PW-783, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

STRUCTURAL DRAFTSMEN AND DETAILERS

Excellent opportunities for structural draftsmen, detailers and checkers with experience in making shop drawings for buildings and bridges.

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Employment Office
BETHLEHEM STEEL COMPANY
BETHLEHEM, PA.

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GRADUATE CIVIL ENGINEERS
With or Without Experience
For Highway and Bridge Location, Design and Construction

Opportunity for permanent civil service.
Give age, experience, education in first letter.

G. T. McCOY
State Highway Engineer
Division of Highways
P. O. Box 1499
Sacramento, California

ENGINEERS WANTED

Civil, mechanical and electrical engineers for work on hydroelectric and irrigation projects, industrial plants and bridges. Opportunity for permanent connections and good salary. Write giving full details, salary desired, and date available to

P. O. Box 356, Denver, Colorado

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CONSTRUCTION ENGINEERS
ESTIMATORS
FIELD ACCOUNTANTS

Large Nationally known Construction Company, doing work throughout the country, has openings for men experienced in heavy industrial construction.

Good pay and long term employment for qualified persons. With the exception of Estimators, must be willing to travel.

Reply, giving full details as to past experiences, education, references, date of availability and starting salary requirement.

P-738, Engineering News-Record
520 North Michigan Ave., Chicago 11, Ill.

WANTED
ASSISTANT CHIEF ENGINEER

Manufacturer of construction and concrete paving equipment requires competent designing engineer, experienced in both mechanical and structural design, to assist in management of an established engineering department. Excellent opportunity available for man who is capable and aggressive. State age, experience and salary desired in first letter. All replies will be held confidential.

CONSTRUCTION EQUIPMENT DEPT.
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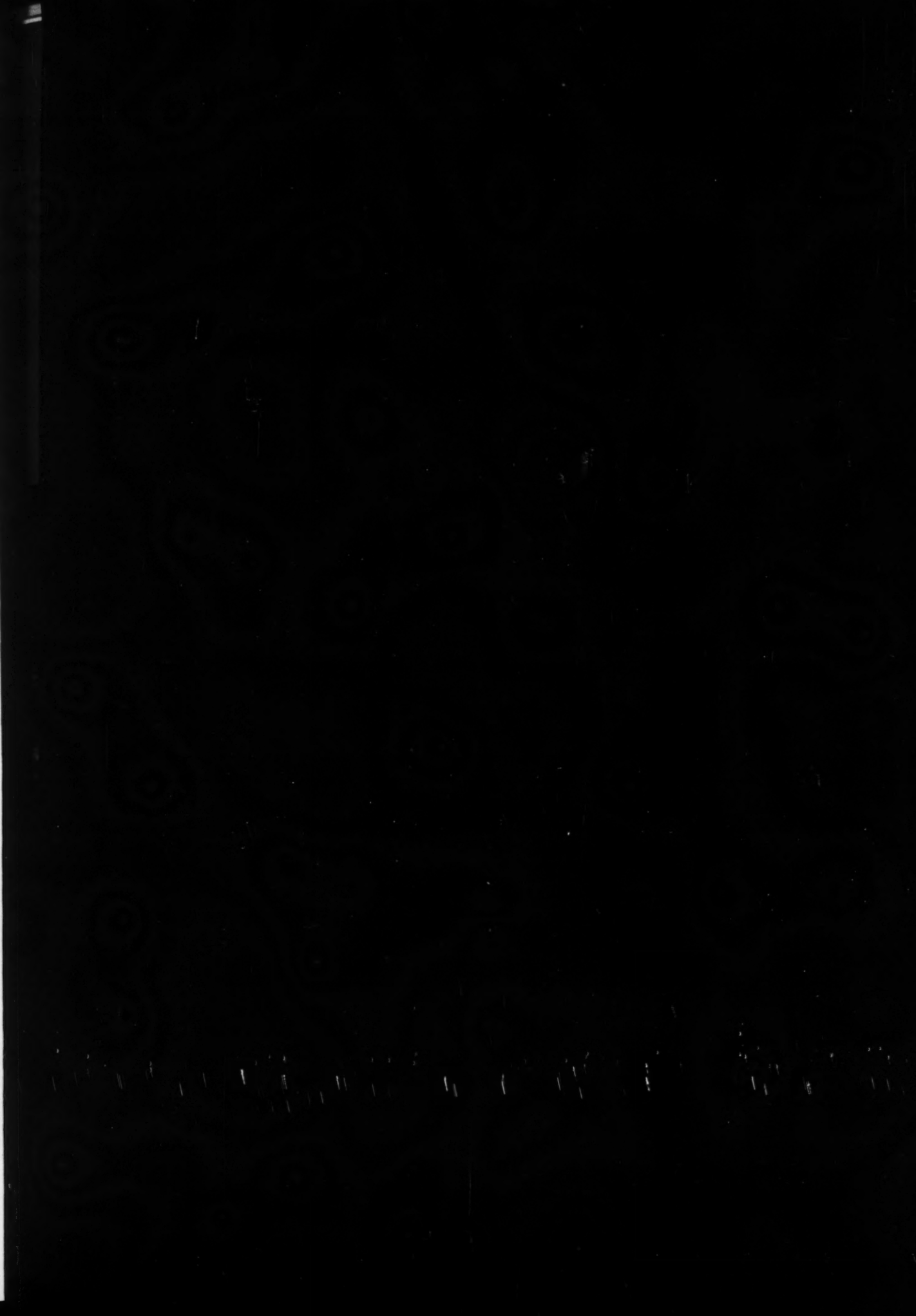
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